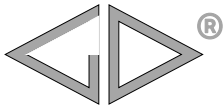
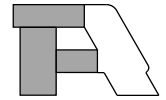


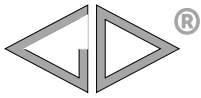
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MKP62 Code:C42(W)	金属化聚丙烯膜抗干扰电容器(X2类, THB防潮系列) Metallized polypropylene film interference suppression capacitor (class X2, Temperature Humidity Bias (THB) series)	169
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一、电子设备用薄膜电容器的标准体系

电子设备用固定电容器的标准体系是由基础标准，总规范，分规范，空白详细规范，以及详细规范（即企业标准）组成。或者说，企业标准是按总规范和分规范的基本要求，填写空白详细规范而成。

总规范规定了分规范和详细规范中使用的标准术语、检验程序和试验方法。分规范是按电容器的介质和结构分类的，它是对该类电容器规定优先额定值和特性，并从总规范中选择适当的质量评定程序、试验和测量方法，以及给出一般性能要求。空白详细规范是分规范的一种补充文件，它规定了详细规范的格式、编排和最基本的要求。

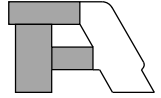
薄膜电容器的标准体系，举例如下：

一、The standard system of fixed plastic film capacitors for use in electronic equipment

The standard system of fixed plastic film capacitors for use in electronic equipment includes the foundational standard, generic specification, sectional specification, blank detail specification and detail specification, or manufacturer specification. That is, a manufacturer specification is derived from blank detail specification according to the basic requirements of generic and sectional specifications. Generic specification specifies the terminology, inspection procedures and test methods applied in sectional and detail specifications. Sectional specification is classified according to the specific dielectric material and construction of capacitor, it prescribes preferred rating and characteristics and to select from generic specification the appropriate quality assessment procedures, tests and measuring methods and to give general performance requirements for this type of capacitor. Blank detail specification is a supplementary document to the sectional specification and contains requirements for style, layout and minimum contents of detail specifications.

Following please find the corresponding specification lists for plastic film capacitors.

标准号(No.)	标准 (Standards)
GB/T 2693 (IEC 60384-1)	第 1 部分:总规范 Part 1: Generic specification
GB/T 7332 (IEC 60384-2)	第 2 部分: 分规范: 金属化聚乙烯对苯二甲酸酯膜介质直流固定电容器 Part 2:Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric d.c. capacitors
GB/T 7333 (IEC 60384-2-1)	第 2-1 部分: 空白详细规范: 金属化聚乙烯对苯二甲酸酯膜介质直流固定电容器 评定水平 E 和 EZ Part 2-1:Blank detail specification: Fixed metallized polyethylene-terephthalate film dielectric d.c. capacitors assessment levels E and EZ
	注: 聚乙烯对苯二甲酸酯膜以下简称聚酯薄膜 Note:polyethylene-terephthalate film hereinafter referred to as Polyester Film
	详细规范: Detail specification for C25, C24, C23, C21, C22, C20, C92, C28
GB/T 10188 (IEC 60384-13)	第 13 部分: 分规范: 金属箔式聚丙烯膜介质直流固定电容器 Part 13: Sectional specification: Fixed polypropylene film dielectric metal foil d.c. capacitors
GB/T 10189 (IEC 60384-13-1)	第 13-1 部分: 空白详细规范: 金属箔式聚丙烯膜介质直流固定电容器 评定水平 E 和 EZ Part 13-1:Blank detail specification: Fixed polypropylene film dielectric metal foil d.c. capacitors assessment levels E and EZ
	详细规范: Detail specification for C13
GB/T 6346.14 (IEC 60384-14)	第 14 部分: 分规范: 抑制电源电磁干扰用固定电容器 Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains
GB/T 6346.1401 (IEC 60384-14-1)	第 14-1 部分: 空白详细规范: 抑制电源电磁干扰用固定电容器 评定水平 D Part 14-1:Blank detail specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains assessment level D
	详细规范: Detail specification for MKP62,MKP63,MKP64,MKP65,MKP66,MKP67,MKP61R,C4B,C4H,C4V
GB/T 10190 (IEC 60384-16)	第 16 部分: 分规范: 金属化聚丙烯膜介质直流固定电容器 Part 16: Sectional specification: Fixed metallized polypropylene film dielectric d.c. capacitors
GB/T 10191 (IEC 60384-16-1)	第 16-1 部分: 空白详细规范: 金属化聚丙烯膜介质直流固定电容器 评定水平 E 和 EZ Part 16-1:Blank detail specification: Fixed metallized polypropylene film dielectric d.c. capacitors assessment levels E and EZ
	详细规范: Detail specification for C30, C35, C82, C32, C37, C31, C14
GB/T 14579 (IEC 60384-17)	第 17 部分: 分规范: 金属化聚丙烯膜介质交流和脉冲固定电容器 Part 17: Sectional specification: Fixed metallized polypropylene film dielectric a.c. and pulse capacitors
GB/T 14580 (IEC 60384-17-1)	第 17-1 部分: 空白详细规范: 金属化聚丙烯膜介质交流和脉冲固定电容器 评定水平 E 和 EZ Part 17-1:Blank detail specification: Fixed metallized polypropylene film dielectric a.c. and pulse capacitors assessment levels E and EZ
	详细规范: Detail specification for C84, C33
GB/T 15488 (IEC 60384-19)	第 19 部分: 分规范: 表面安装金属化聚乙烯对苯二甲酸酯膜介质直流固定电容器 Part 19:Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors
GB/T 16467 (IEC 60384-19-1)	第 19-1 部分: 空白详细规范: 表面安装金属化聚乙烯对苯二甲酸酯膜介质直流固定电容器 评定水平 EZ Part 19-1: Blank detail specification: Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors assessment level EZ
	详细规范: Detail specification for C57



二、一些常用的标准术语

1. 上限类别温度

电容器设计所确定的能连续工作的最高环境温度。

2. 下限类别温度

电容器设计所确定的能连续工作的最低环境温度。

3. 额定温度

可以连续施加额定电压的最高环境温度。

4. 额定电压 (U_R)

在下限类别温度和额定温度之间的任一温度下, 可以连续施加在电容器上的最大直流电压或脉冲电压的峰值。

5. 类别电压 (U_C)

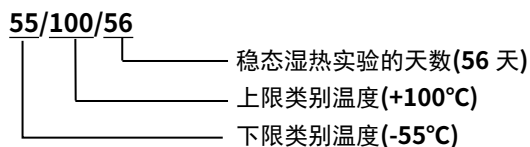
电容器在上限类别温度下可以连续施加在电容器上的最高电压。

6. 温度降额电压

温度降额电压是在额定温度和上限类别温度之间的任一温度下, 可以连续施加在电容器上的最高电压。

7. 气候类别

电容器所属的气候类别用斜线分隔的三个数来表示 (IEC 60068-1: 如: 55/100/56)。



8. 损耗角正切 ($\tan\delta$)

在规定频率的正弦波电压作用下, 电容器的损耗功率除以电容器的无功功率。

二、Terminologies

1.Upper Category Temperature

The highest environmental temperature determined by capacitors design and in which capacitor may continuously work.

2.Lower Category Temperature

The lowest environmental temperature determined by capacitors design and in which capacitor may continuously work.

3.Rated Temperature

The highest environmental temperature in which capacitor applied continuously with the rated voltage.

4.Rate Voltage (U_R)

The maximum D.C. voltage or peak value of pulse voltage that can be applied continuously to capacitor at any temperature between lower category temperature and rated temperature.

5.Category Voltage (U_C)

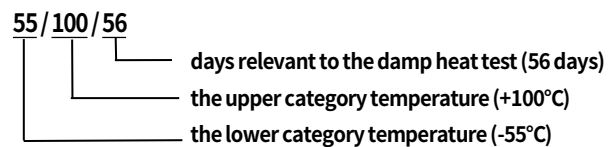
The maximum voltage that can be applied continuously to capacitor at upper category temperature.

6.Temperature Derated Voltage

The maximum voltage that can be applied continuously to capacitor at any temperature between rated temperature and upper category temperature.

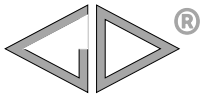
7.Climatic category

The climatic category which the capacitor belongs to is expressed in three numbers separated by slashes,(IEC 60068-1:example 55/100/56).



8.Dissipation factor ($\tan\delta$)

The dissipation factor is ratio between reactive power of the impedance of the capacitor and effective power when capacitor is submitted to a sinusoidal voltage of specified frequency.



9. 容量温度系数(α)

电容器在规定的温度范围内容量随温度的变化率。通常以 20°C 时电容量为参考，用百万分之一每摄氏度 ($10^{-6}/^{\circ}\text{C}$) 表示。 ($10^{-6}/^{\circ}\text{C} = 1\text{ppm}/^{\circ}\text{C}$)

$$\alpha_i = \frac{C_i - C_0}{C_0(T_i - T_0)}$$

C_i : 电容器在温度 T_i 时容量

C_0 : 电容器在 $T_0(20 \pm 2)^{\circ}\text{C}$ 时的容量

10. 绝缘电阻(I.R.) / 时间常数 (t)

绝缘电阻为电容器充电一分钟后所加的直流电压和流经电容器的漏电流值的比值，单位为 $\text{M}\Omega$ 。时间常数为绝缘电阻和电容量的乘积，通常以秒表示，公式如下：

$$t[\text{s}] = \text{I.R.}[\text{M}\Omega] \times C_N [\mu\text{F}]$$

一般情况下，绝缘电阻用于描述小容量电容器的绝缘特性，时间常数用于描述大容量（如： $C_N > 0.33\mu\text{F}$ ）电容器的绝缘特性。

11. 自愈性(仅对金属化膜电容器)

金属化膜的金属镀层是通过真空蒸发的方法将金属沉积在薄膜上，厚度只有几十个纳米，当介质上存在弱点、杂质时，局部电击穿就可能发生，电击穿处的电弧放电所产生的能量足以使电击穿点邻近处的金属镀层蒸发，使击穿点与周围极板隔开，电容器电气性能即可恢复正常。

9. Temperature coefficient of capacitance(α)

The change rate of capacitance with temperature measured over a specified range of temperature. It is normally expressed in parts per million per Celsius degree ($10^{-6}/^{\circ}\text{C}$) and referred to 20°C .

$$\alpha_i = \frac{C_i - C_0}{C_0(T_i - T_0)}$$

C_i : Capacitance at temperature T_i .

C_0 : Capacitance at temperature $T_0(20 \pm 2)^{\circ}\text{C}$.

10. Insulation Resistance(I.R.) / Time Constant (t)

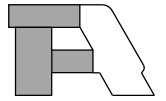
The insulation resistance is the ratio between an applied D.C. voltage and the resulting leakage current after a minute of charging. It is expressed in $\text{M}\Omega$. The time constant is expressed in seconds with the following formula:

$$t[\text{s}] = \text{I.R.}[\text{M}\Omega] \times C_N [\mu\text{F}]$$

In general, Insulation resistance is used for describing smaller capacitance capacitors' insulation character, Time Constant for describing larger one's (example: $C_N > 0.33\mu\text{F}$).

11. Self-healing(Only to metallized film capacitor)

The metal coatings of the metallized film, which are vacuum-deposited directly onto the plastic film, have a thickness of only several tens nm. At weak points or impurities in the dielectric, a dielectric breakdown would occur. The energy released by the arc discharge in the breakdown channel is sufficient to totally evaporate the thin metal coating in the vicinity of the channel. The insulated region thus resulting around the former faulty area will cause the capacitor to regain its full operation ability.



三、薄膜电容器的基本结构(Film capacitor basic construction)

电容器结构示意图 (Different capacitor constructions)

C24(CL23B),C25(CL25) C21(CL21),C20(CL20) C22(CL21X),C23(CL23) C30(CBB20),C28, C92 C31(CBB21/A/B),C57 C42(MKP62),C44(MKP64) C4V	C14(CBB81)	C21(CL21),C31(CBB21) C26(MKT61),C29	C13(CBB13)	C4B,C45(MKP65) C4H,C43(MKP63)
				—
	C82(MMKP82)	C82(MMKP82) C84(MMKP84)	C84(MMKP84)	—

金属化薄膜
Metallized film

金属箔
Metal foil

双面金属化膜
Double-sided metallized film

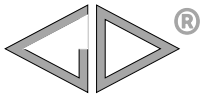
薄膜
Film

卷绕结构(Winding construction)

卷绕式径向产品 (Wound capacitor,radial leads)	卷绕式轴向产品 (Wound capacitor, axial leads)	叠片式产品 (Stacked version capacitor)

封装方式(Different seals)

浸渍型封装 Dipped by epoxy resin	盒式封装 Sealed in box	轴向 Axial leads	无封装 Uncoated	表面安装 SMD



四、典型特性、应用、以及特性曲线

1. 典型特性

聚酯薄膜

- ◆ 工作温度范围宽
- ◆ 介电常数大
- ◆ 自愈特性好
- ◆ 容积比大
- ◆ 稳定性好

聚丙烯薄膜的特性

- ◆ 损耗极低
- ◆ 介质吸收系数低
- ◆ 绝缘电阻高
- ◆ 频率特性好
- ◆ 自愈特性好
- ◆ 稳定性很好

2. 典型应用

聚酯薄膜电容器

- ◆ 隔直和耦合
- ◆ 旁路
- ◆ 退耦
- ◆ 滤波
- ◆ 定时
- ◆ 低脉冲电路
- ◆ 振荡电路

聚丙烯薄膜电容器

- ◆ 高频脉冲应用
- ◆ 大电流场合
- ◆ 交流场合
- ◆ 高稳定的定时场合
- ◆ 开关电源系统和彩电行业
- ◆ 照明行业
- ◆ 工控行业
- ◆ 高 Q 滤波

四、Typical Properties, Applications and Typical graphs

1. Typical Properties

Polyester Film

- ◆ Very wide operating temperature range
- ◆ High dielectric constant
- ◆ Excellent self-healing properties
- ◆ Very good ratio box size/capacitance
- ◆ Good stability

Polypropylene Film

- ◆ Very low dissipation factor
- ◆ Very low dielectric absorption
- ◆ Very high insulation resistance
- ◆ Good behaviour in frequency
- ◆ Excellent self-healing properties
- ◆ Very good stability

2. Typical Applications

Polyester film capacitors

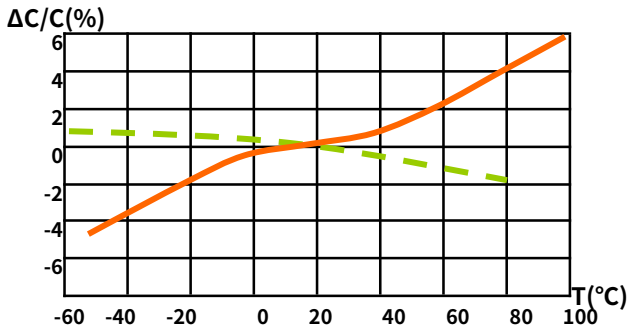
- ◆ Blocking and Coupling
- ◆ By-passing
- ◆ Decoupling
- ◆ Filtering
- ◆ Timing
- ◆ Low pulse circuits
- ◆ Oscillator circuits

Polypropylene film capacitors

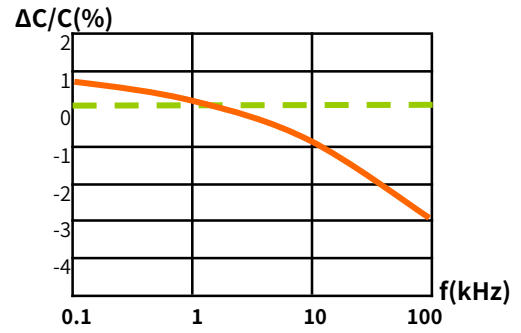
- ◆ High frequency,pulse applications
- ◆ High current
- ◆ A.C. applications
- ◆ Timing with high stability
- ◆ SMPS and TV set.
- ◆ Lighting
- ◆ Industrial
- ◆ Filtering high Q



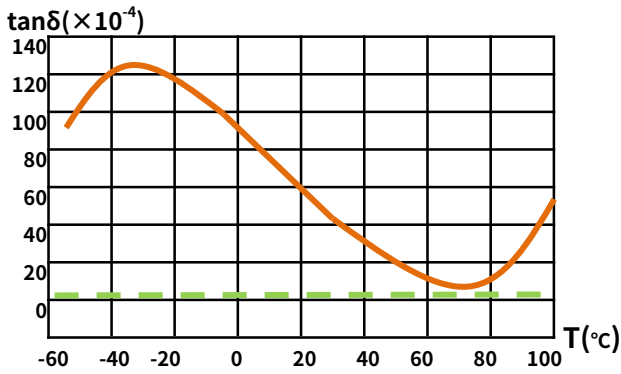
3. 特性曲线 Typical graphs



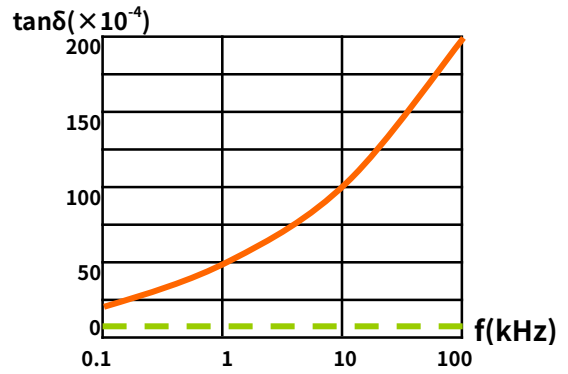
Capacitance vs. temperature at 1kHz



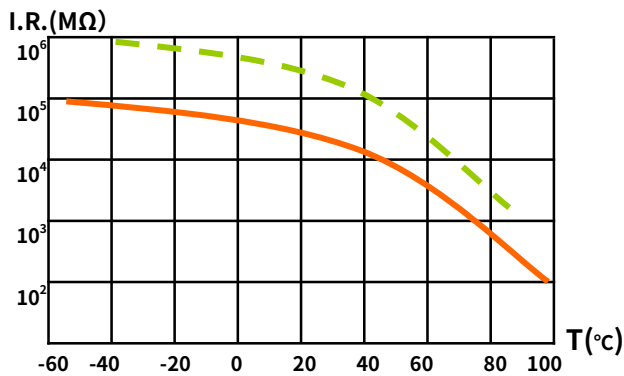
Capacitance vs. frequency (Room temperature)



Dissipation factor vs. temperature at 1kHz

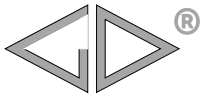


Dissipation factor vs. frequency (Room temperature)



I.R. vs. temperature

- - - 聚丙烯薄膜 (Polypropylene Film)
- 聚酯薄膜 (Polyester Film)



五、使用薄膜电容器的注意事项:

1. 工作电压:

薄膜电容器的选用取决于施加的最高电压, 并受施加的电压波形、电流波形、频率、环境温度(电容器表面温度)、电容量等因数的影响。使用前请先检查电容器两端的电压波形、电流波形和频率(在高频场合, 允许电压随着电容器类型的不同而改变, 详细资料请参阅说明书)是否在额定值内。C22、C35、C37 系列电容不适合用于交流场合。

2. 工作电流

通过电容器的脉冲(或交流)电流等于电容量 C 与电压上升速率的乘积, 即 $I=C \times dV/dt$ 。

由于电容器存在损耗, 在高频或高脉冲条件下使用时, 通过电容器的脉冲(或交流)电流会使电容器自身发热而有温升, 将会有热击穿(冒烟、起火)的危险。因此, 电容器安全使用条件不仅受额定电压(或类别电压)的限制, 而且受额定电流的限制。

工作电流被认为是由击穿模式决定的脉冲电流(峰值电流, 即由 dV/dt 指标所限制的)和连续电流(以峰峰值或有效值表示)组成, 当使用时, 需确认这两个电流都在允许范围之内。

在高频或高脉冲条件下使用的电容器, 我们推荐聚丙烯膜电容器或 C24 叠片式电容器。

3. 各种波形的有效值换算关系

不同的波形有效值按下面的公式计算。

种类(type)	1	2	3	4
波形 (waveform)				
有效值(rms)	$E/\sqrt{2}$	$E/\sqrt{2}$	$E\sqrt{t/(2T)}$	$E/\sqrt{3}$
种类(type)	5	6	7	8
波形 (waveform)				
有效值(rms)	$E\sqrt{t/(3T)}$	E	$E\sqrt{t/T}$	$\sqrt{\frac{t}{2T}(E_1^2 + E_2^2 + E_3^2 + E_4^2)}$

五、Caution items in using plastic film capacitors

1.Operation voltage

The plastic film capacitor varies in the maximum applicable voltage depending on the applied voltage waveform, current waveform, frequency, ambient temperature (capacitor surface temperature), capacitance value ,etc. Be sure to use capacitors within the specified values by checking the voltage waveform, current waveform, and frequency applied to them (In the application of high frequency, the permissible voltage varies with the type of the capacitor. For detail see the specification).C22,C35,C37 series isn't suitable for AC applications.

2.Operating Current

The pulse (or AC) current flowing through the capacitor is expressed as: $I=C \times dV/dt$.

Due to the fact that dissipation factor of the capacitor will generate the internal heat under the application of high frequency or high pulse current, temperature rise in it will occur and may cause deterioration of withstanding voltage, even lead to break down (smoking or firing).Therefore, the safety use of capacitor must be within the rated voltage(or category voltage)and the permissible current.

The operating current must be considered by dividing into pulse current(peak current)and continuous current (rms current) depending on the break down mode, and when using, should make sure the both currents are within the permissible values. Under the application of high frequency or high pulse ,we recommend to use the polypropylene film capacitor or C24 stacked capacitor.

3.Calculation of rms in various waveforms

In each waveform, calculate the rms value in the following formula.



4. 抑制电源电磁干扰用电容器

4.1 当在电源跨线电路中使用电容器来消除噪音时，不仅仅只有正常电压，还会有异常脉冲电压（如闪电）发生，这可能会导致电容器冒烟或者起火。所以，跨线电容器其安全标准在不同国家有严格规定。请使用经过安全认证型电容器。

不允许将直流电容器用作跨线电容器。

4.2 X类抑制电源电磁干扰用电容器

适用于在电容器失效时不会导致电击危险的场合，分为X1、X2二个类别（参见下表）。

4.3 Y类抑制电源电磁干扰用电容器

适用于在电容器失效时会导致电击危险的场合，分为Y1、Y2、Y4等三个类别（参见下表）。

4. Capacitor for electromagnetic interference suppression of AC power supply

4.1 When using a capacitor across-the-line as means for prevention of noise, not only the supply voltage is always applied, but also abnormal surge such as lightning is applied, which may lead to smoking or firing. Therefore, the across-the-line capacitor is strictly regulated in safety standard in each country. Please use the approved products which conform to corresponding safety standards of different countries.

The DC capacitor will not be used in across-in-line circuit.

4.2 Capacitor for electromagnetic interference suppression of AC power supply (Class X)

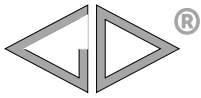
It is suitable for being used in situation where failure of the capacitor could not lead to danger of electric shock, classified as class X1 and X2 (refer to the table below).

4.3 Capacitor for electromagnetic interference suppression of AC power supply (Class Y)

It is suitable for being used in situation where failure of the capacitor could lead to danger of electric shock, classified as class Y1, Y2 and Y4 (refer to the table below).

类别 Class	使用时的峰值脉冲电压 kV Peak pulse voltage in service(kV)	应用 Application	耐久性实验前施加的峰值脉冲电压 U_p (kV) Peak impulse voltage, U_p , before endurance test (kV)
X1	$>2.5, \leq 4.0$	高脉冲应用 High pulse application	$C_N \leq 1.0\mu F, 4.0$ $C_N > 1.0\mu F, 4/\sqrt{C_N}$
X2	≤ 2.5	一般用途 General purpose	$C_N \leq 1.0\mu F, 2.5$ $C_N > 1.0\mu F, 2.5/\sqrt{C_N}$

类别 Class	额定电压 Rated Voltage(Vac)	耐久性实验前施加的峰值脉冲电压 U_p (kV) Peak impulse voltage U_p before endurance test (kV)
Y1	≤ 500	8.0
Y2	$\geq 150, \leq 500$	$C_N \leq 1.0\mu F, 5.0;$ $C_N > 1.0\mu F, 5/\sqrt{C_N}$
Y4	< 150	2.5



类别 Class	额定电压 Rated Voltage(Vac)	耐电压 Voltage Proof	
		引线之间 Terminal to terminal	极壳之间 Terminal to case
X1、 X2	$\leq 1\ 000$	$4.3 U_R$ (d.c.)	$2 U_R + 1\ 500$ V(a.c.)with a minimum of 2 000 V(a.c.)
Y1	≤ 500	4 000 V(a.c.)	4 000 V(a.c.)
Y2	$\geq 150, \leq 500$	$U_R + 1\ 200$ V(a.c.) with a minimum of 1 500 V (a.c.) ¹⁾	$2 U_R + 1\ 500$ V(a.c.)with a minimum of 2 000 V(a.c.) ¹⁾
Y4	< 150	900 V (a.c.) ¹⁾	900 V (a.c.) ¹⁾

¹⁾ Y2 类和 Y4 类电容器的逐批试验，交流试验电压可以用规定交流电压 1.5 倍的直流电压代替。
For lot-by-lot tests of Class Y2 and Y4-capacitors, the a.c. test voltage may be replaced by a d.c. voltage of 1.5 times the prescribed a.c. voltage.

5. 电容器充放电

由于电容器充放电电流取决于电容量和电压上升速率的乘积，即使是低电压充放电，也可能产生大的瞬间充放电电流，这可能会导致电容器性能的损害，比如说短路或开路。当进行充放电时，请串联一个 $20\Omega/V \sim 1\ 000\Omega/V$ 或更高的限流电阻，将充放电电流限制在规定的范围内。

当多个薄膜电容器并联进行耐电压测试或寿命测试时，请为每个电容器串联一个 $20\Omega/V \sim 1\ 000\Omega/V$ 或更高的限流电阻。详见电容器标准。

6. 因薄膜振动产生的嗡鸣声

电容器的嗡鸣声是由于电容器薄膜受到两电极间库仑力的作用，产生的振动而发出的声音，施加的电压和频率波形失真越严重，所产生的嗡鸣声越大。但这种嗡鸣声对电容器不会产生任何破坏作用。

7. 表面温升 (ΔT)

7.1 当电容器用于交流及脉冲场合时，流经电容器的电流使其发热，如果发热量过大，会导致电容器短路甚至燃烧。所以流经电容器的电流不能超过产品目录所规定的最大数值及电容器在加载时监测温升就显得尤为必要。

7.2 测量电容器表面温升的方法如图 1，被测试电容器必须施加交流(工作频率)、脉冲电压。

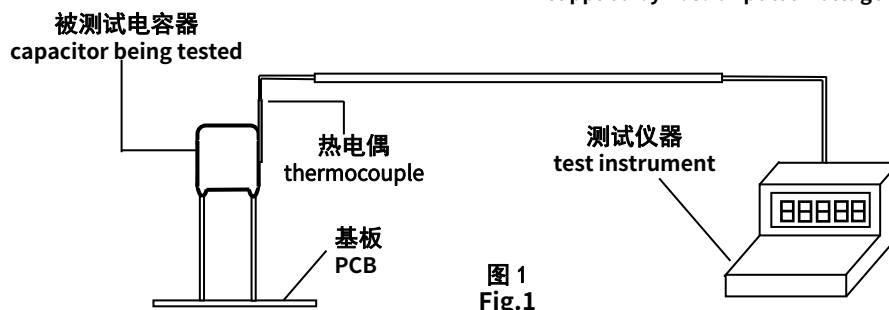


图 1
Fig.1

5.Charging and discharging

Because the charging and discharging current of capacitor is obtained by the product of voltage rise rate (dv/dt) and capacitance, low voltage charging and discharging may also cause deterioration of capacitor such as shorting and open due to sudden charging and discharging current. When charging and discharging, pass through a resistance of $20\Omega/V$ to $1\ 000\Omega/V$ or more to limit current.

When connecting multiple film capacitors in parallel in withstand voltage test or life test, connect a resistance of $20\Omega/V$ to $1\ 000\Omega/V$ or more in series to each capacitor.(For detail see the specification).

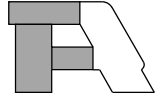
6.Buzzing noise

Any buzzing noise produced by capacitor is caused by the vibration of the film due to the coulomb force that is generated between the electrodes with opposite poles. If the wave-form with a high distortion rate or frequency is applied across the capacitor, the buzzing noise will become louder. But the buzzing noise is of no damage to capacitor.

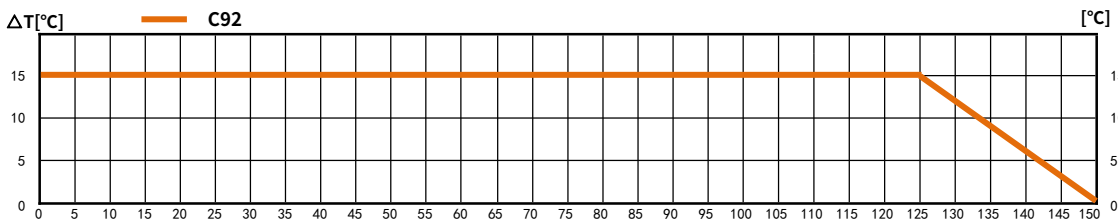
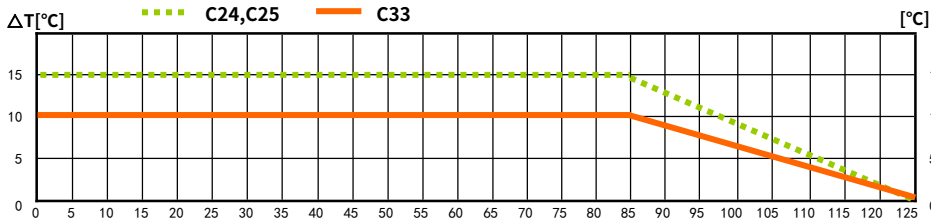
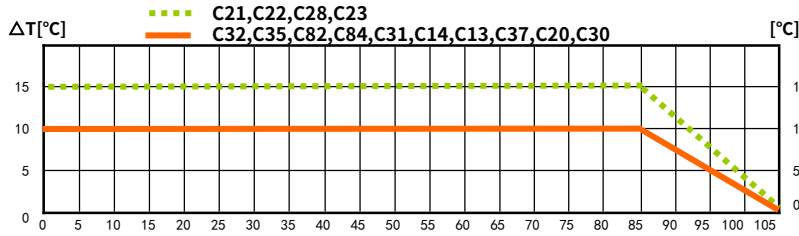
7. Surface overtemperature (ΔT)

7.1 When capacitor is used in A.C. or pulse applications, the current that flows through the capacitor makes it heat up. If the capacitor heats up too much it might deteriorate causing a short circuit or fire. The limits described in the catalogue are not exceeded and it's necessary to check temperature on the capacitor when it's working.

7.2 Method for determining the surface overtemperature of the capacitor is showed in fig.1. The capacitor being tested must be supplied by A.C. or pulse voltage and frequency.



7.3 各型号电容表面允许的最大温升 Maximum self temperature rise for all series



注：如果有超出要求的请联系我们技术工程师。

Note: If you need the temperature more than above, please contact our engineers.

8. 阻燃性

尽管在薄膜电容器外封装中使用了耐火性阻燃材料—阻燃环氧树脂或塑壳，但外部的持续高温或火焰仍可使电容器芯子变形而产生外封装破裂，导致电容器芯子熔化或燃烧。

对于抑制电源电磁干扰电容器，要求的阻燃类别等级为 B。当电容器体积小于 1750mm³ 时，阻燃类别等级为 C 也是允许的。

8.Passive flammability

Although flame retardation epoxy resin or plastic case is used in the coating or encapsulating of plastic film capacitor, continuous outer high temperature or firing will break the coating layer or plastic case of the capacitor ,and may lead to melting and firing of the capacitor element.

For interference suppression capacitors, the preferred category is B. But for components smaller than 1750mm³, passive flammability category C is permitted.

阻燃类别(Category of flammability)	针对电容器体积范围 (mm ³) 施加火焰时间 (s)				最大燃烧时间 (s)
	体积≤250	250<体积≤500	500<体积≤1750	1750<体积	
A	15	30	60	120	3
B	10	20	30	60	10
C	5	10	20	30	30

9. 几种特殊工作环境

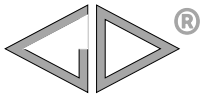
9.1 高湿环境

如果长时间使用在高湿环境下，电容器可能会吸收潮气、电极被氧化，导致电容器损坏。如果在 AC 条件下使用，高湿环境将会加剧电晕的影响，从而引起电容值下降、损耗值增加。在 AC 应用情况下，如果超出下表的条件，影响将会更严重，对详细的信息请联系我们技术工程师。

9. Special working conditions

9.1 Humid ambient

If used for a long time in a humid ambient, the capacitor might absorb humidity and oxidize the electrodes causing breakage of the capacitor. If case of AC application, high humidity would increase the corona effect . This phenomenon causes a drop in the capacitance value. In case of working condition in AC application more severe than following table, please contact our engineers for detailed information.



	Working Temperature	Relative Humidity
Average for year	25°C	70%
2 weeks continuously	30°C	90%

9.2 PCB 板组装：灌胶

如果电容器有被灌树脂，下列的情况将可能会发生：

- a. 树脂里的溶剂可能会影响电容器的特性；
- b. 在聚合过程中产生的热将会损坏电容器。

9.3 PCB 板组装：红胶固化

因为过高的温度会有可能损害电容器，我们建议产品的插件动作在红胶固化工序后进行。当必须提前时，请评估所使用的红胶固化温度曲线是否适合插件产品。

10. 焊接建议

为达到更好的可焊性，我们建议遵照下列的标准。

10.1 最大焊接温度

10.1.1 手动焊接

最高温度:350°C, 时间:3s

10.1.2 波峰焊

波峰焊工艺过程中有较多因素对薄膜电容器受热有影响，如：预热温度、预热时间、锡炉温度、过锡炉时间、其他热源影响等。

9.2 PCB Assembling : Filling with Resin

If the capacitor is placed in resin, the following situations might occur:

- a. The solvent contained the resin might deteriorate the characteristics of the capacitor;
- b. The heat generated during the polymerizations might damage the capacitor.

9.3 PCB Assembling: Adhesive curing oven

Because the high temperature of adhesive curing will damage the capacitors, so we suggest that leaded parts must be fixed after the adhesive curing process . When must be ahead , please estimate if the curing curve is suitable for capacitors.

10. Soldering suggestions

In order to obtain a good solderability, we suggest to observe the following rules.

10.1 Max soldering temperature

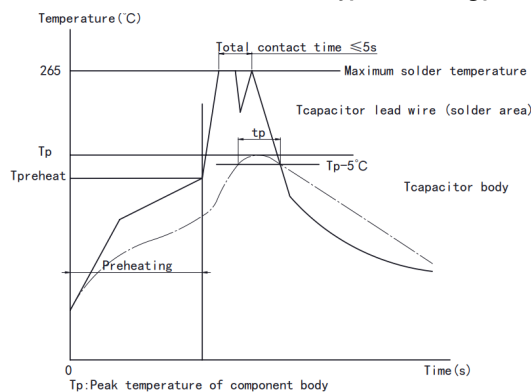
10.1.1 Manual soldering

Max. temperature:350°C, time:3s

10.1.2 Wave soldering

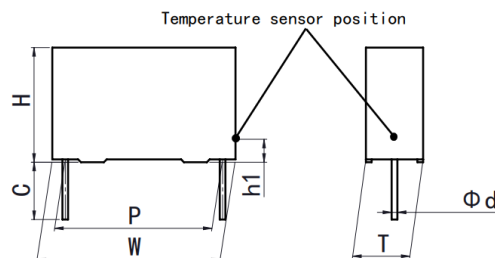
There are many factors affecting the heating of film capacitor during the wave soldering process, such as: preheating temperature, preheating time, soldering temperature, soldering time, other heat sources influence and so on.

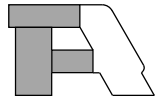
The typical soldering profile is as below:



因为过热有可能会损害电容器，我们建议关注电容器最高温度以及耐热时间，用热电偶检测电容本体最高温度 T_p （测量位置参考下图）

Because overheating could damage the capacitor, we recommend paying attention to the maximum capacitor temperature and heating time, use temperature sensor to detect the maximum capacitor body temperature





测温点位置 Temperature sensor position(Tcapacitor body)	电容器引线侧的外壳表面, 电容距离 PCB 板高度: h1=2mm~3mm 的位置 The capacitor body surface of lead side, capacitor height position from PCB: h1=2 mm~3mm		
焊接过程电容本体最高耐热温度 Maximum capacitor body temperature T _p (°C)	OPP film P≤15mm	OPP film P>15mm	PET film
	115	120	125
焊接过程电容引脚最高耐热温度 Maximum capacitor lead wire temperature(°C)	265	265	265
焊接过程电容本体最长耐热时间 Maximum capacitor body heating time t _p =T _p -5°C	30s		

10.2 如果需要焊接两次, 第二焊接必须等到电容器恢复到常温。

10.3 插件产品仅适合做波峰焊接。

11. 贮存条件

11.1 由于大气中存在氯化物、硫化物、硫酸物质等, 所以产品贮存在大气中, 必须注意引出端的可焊性会变差。

11.2 产品不能暴露在高温和高湿状态, 必须保存在以下环境中: (在不拆开原包装的基础上)

温度: -40°C 到 35°C;

湿度: 年平均值不超过 70% RH

全年任意 30 天不超过 80% RH

引线式产品贮存时间(从产品包装或产品本体上的日期算起):

散装产品(塑料袋包装): 不超过 24 个月。

径编和排列产品: 不超过 12 个月。

SMD 产品贮存时间(从产品包装或产品本体上的日期算起): 不超过 12 个月。

11.3 SMD 产品作业条件: 打开包装袋后, 最佳生产时间和环境: 72h 以内, 温度<30°C, 湿度<60%RH; 如超出 72h, 应及时放置在湿度<10%RH 的干燥柜内保存; 再次作业时也应遵守此规则。建议在回流焊前对产品进行如下干燥处理: 将产品包装袋拆开, 敞开在鼓风干燥箱内(55°C±5°C, 湿度<10%RH, 72 h 以上)进行干燥, 降低产品受潮影响。当产品受潮时, 请与我司工程师联系处理方式。

六、绿色产品

RoHS 符合性

在此产品目录中的, 法拉公司的产品均符合 RoHS 指令和《电子信息产品污染控制管理办法》的要求。

七、在订购或索要样品之前, 请尽可能多地提供以下信息:

1. 额定工作电压: DC, AC;
2. 电容量及电容量允许偏差: J, K, M 等;
3. 最终产品种类: 开关电源、绿色照明、变频器、UPS、车载电源、充电桩等等;
4. 用途或电路图: 直流回路、交流脉冲回路, 电源跨线噪音抑制电路、高稳定性电路、DC-link、DC-filter、降压、PFC 等等;
5. 使用条件: 脉冲峰值, 频率, 波形, 电流等等;
6. 使用温度;
7. 外形尺寸: 电容器本体尺寸, 引出线尺寸等等;
8. 形状: 封装形式(浸渍型、盒式等), 引出线(直脚、成型、编带等等);
9. 安全性: 当电容器短路或开路时对其他部件的影响, 当其它部件或电路工作异常时对电容器的影响
10. 焊接条件: SMD、引线式;
11. 安装方式: PCB 板、绝缘引线等。

10.2 If re-working or dipping twice is necessary, it should be done after the capacitor returns to the normal temperature.

10.3 Plug parts only suitable for wave soldering.

11. Storage conditions:

11.1 It must be noted that the solderability of the terminals may be deteriorated when stored in an atmosphere filled with moisture, dust, or areactive oxidizing gas.(hydrogen chloride, hydrogen sulfide, sulfuricacid,etc.)

11.2 It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions(unchanging primal package):

Temperature: -40°C to 35°C

Humidity: Average per year ≤ 70%RH; For 30 full days randomly distributed throughout the year≤80%RH

Storage time for tinned lead wire:(from the date marked on the capacitor's body or the label glued to the package):

Bulk(packed with plastic bag): ≤24 months;

Taping and line up: ≤12 months;

Storage time for SMD(from the date marked on the capacitor's body or the label glued to the package): ≤12 months.

11.3 The permanence conditions for SMD: after opening the packing bag, the best produce time and surroundings is in 72h,temperature <30°C, humidity <60%RH; If more than 72 h, it should be kept in the <10%RH drying cabinet in a timely manner, and the rules should be followed during the next production. Suggest that dry the product before the reflow: open the packing bag in the drying box (55°C±5°C, the humidity<10%RH, more than 72 h), reduce the bad probability due to damp.When the product is damp, please contact our engineer.

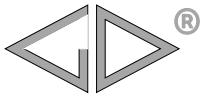
六、Green Products

RoHS Compliance

Faratronic products in the catalogue are RoHS Compliant.

七、When placing an order or inquiring sample, please specify the following, as much as you can.

1. Rated voltage: DC, AC.
2. Capacitance value and capacitance tolerance: J, K, M etc.
3. Finished product: Switching power, Green lighting, Transducer, UPS, Vehicular power, Charging pile etc.
4. Application or circuit diagram: DC circuit, AC pulse circuit, interface noise suppression circuit, high stability circuit DC-link, DC-filter, capacitive divider, PFC etc.
5. Condition of operation: pulse peak, frequency, waveform, current etc.
6. Operating temperature.
7. Dimensions: body, lead space, etc.
8. Shape: enclosure(dip, case, etc), lead wire(straight, crimped, taping etc).
9. Safety: Influence to the other component, when the capacitor gets short-circuited or open. Influence to the capacitor, when the other component or the circuit works irregularly.
10. Welding condition: SMD or tinned-lead-wire type.
11. Fixed style: PCB, insulated lead wire etc.



八、引线式产品的包装方式 Packing for tinned-wire capacitors

1. 塑料外壳电容器径向编带说明 Taping specification for box-type capacitor

■ 外形图 Outline Drawing

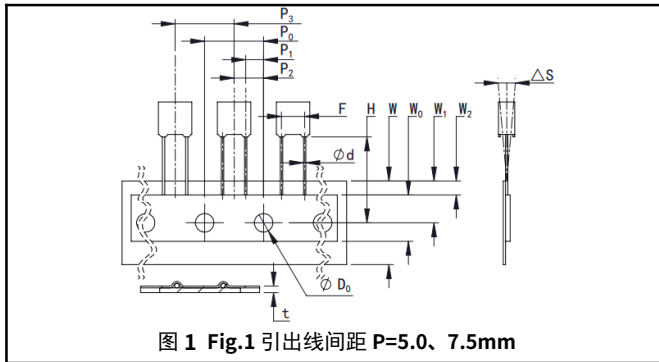


图 1 Fig.1 引出线间距 P=5.0、7.5mm

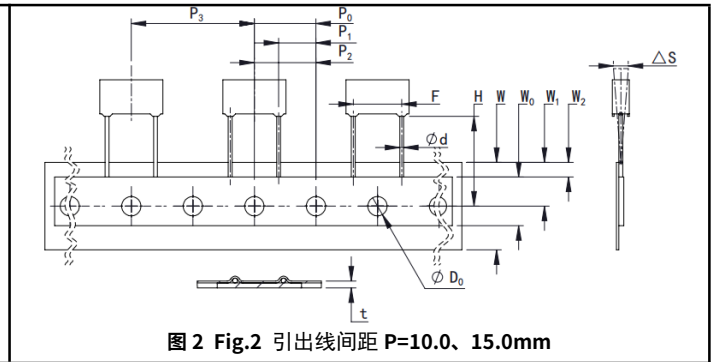


图 2 Fig.2 引出线间距 P=10.0、15.0mm

■ 编带尺寸表 Taping Dimensions(mm)

■ 包装数量 Packing Quantity

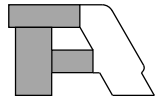
技术指标名称	代号	尺寸				误差
		P=5.0	P=7.5	P=10.0	P=15.0	
编带类型	—	图 1 Fig 1	图 1 Fig 1	图 2 Fig 2	图 2 Fig 2	—
Part number Digit12-15	Ammo-pack	A201	A301	A405	A605	
电容器间距	P_3	12.7	12.7	25.4	25.4	± 1.0
送带孔距	P_0	12.7	12.7	12.7	12.7	± 0.3
引出线位置	P_1	3.85	2.6	7.7	5.2	± 0.7
电容器本体位置	P_2	6.35	6.35	12.7	12.7	± 1.3
引出线间距	F^{**}	5.0	7.5	10.0	15.0	+0.6 -0.1
电容器侧面倾斜	ΔS	0	0	0	0	± 2.0
电容器底部至 带孔中心距离	H^{***}	18.5	18.5	18.5	18.5	± 0.5
纸带宽度	W	18.0	18.0	18.0	18.0	+1.0 -0.5
胶带纸宽度	W_0	8min (T2.5/3.5)	10min	10min	10min	—
送带孔位置	W_1	9.0	9.0	9.0	9.0	± 0.5
胶带纸位置	W_2	3max	3max	3max	3max	—
送带孔直径	D_0	4.0	4.0	4.0	4.0	± 0.2
编带总厚度	t	0.7	0.7	0.7	0.7	± 0.2
Note: * $P_0=15\text{mm}$ is also available; * $P_0=15\text{mm}$ 是可行的 **F can be other lead spacing; **F 可以是其他间距 ***H=16.5mm is available; ***H=16.5mm 是可行的 If you need other taping, please contact us. 如果需要其它编带, 请联系我们。						

Pitch (mm)	Box thickness T(mm)	Ammo-pack (pcs/box)
5.0	2.5	2 800
	3.5	2 100
	4.5	1 700
	5.0	1 500
	6.0	1 200
7.5	7.5	1 000
	3.5	2 100
	4.0	1 900
10.0/ 15.0	5.0	1 500
	6.0	1 200
	4.0	900
	5.0	700
15.0	6.0	600
	7.0	500
	7.5	480
	8.0	450
	8.5	420
	10.0	250
	11.0	220

2. 浸渍型电容器包装说明 Packing for dipped-type capacitor

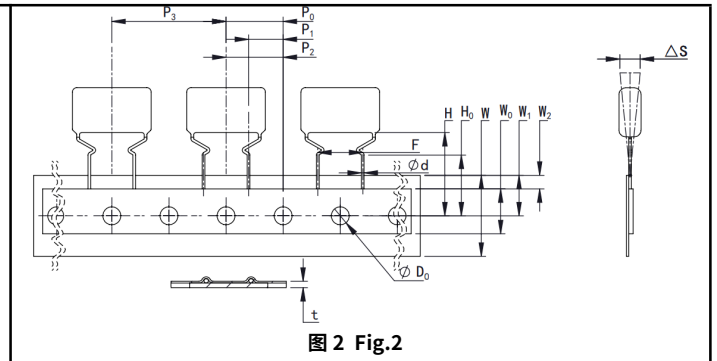
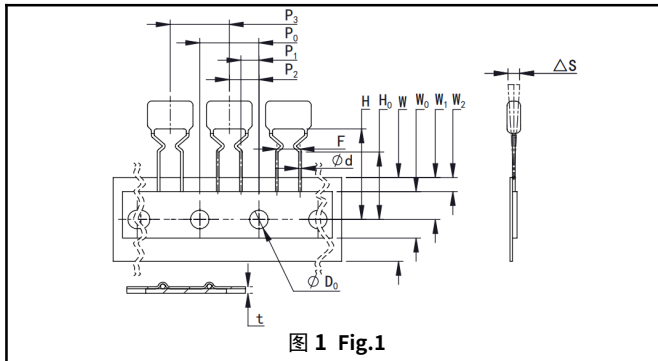
2.1 浸渍型电容器引出线成型形状 Lead kinked for dipped-type capacitor

代号 Code	I	II	III	IV
成型形状 Forming shape				
适用范围 Applicable range	$P \geq F$		$P < F$	
	$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
尺寸标准 Dimension standard	$A \leq 5.0\text{mm}$; $B = 4.5\text{mm} \pm 0.5\text{mm}$; F 允许偏差为 $\pm 0.8\text{mm}$ (The permissible tolerance of 'F' is $\pm 0.8\text{mm}$)			



2.2 浸渍型电容器径向编带说明 Taping for dipped-type capacitor

■ 外形图 Outline Drawing

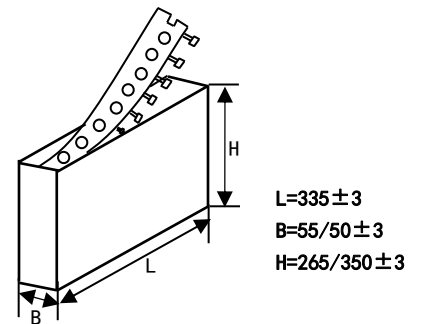


■ 编带尺寸表 Taping Dimensions(mm)

技术指标名称	代号	尺寸				误差
		P=5.0	P=7.5	P=10.0	P=15.0	
编带类型	—	Fig.1	Fig.1	Fig. 2	Fig. 2	—
Part number Digit12-15	Ammo-pack	A21A	A31A	A41E	A61E	
电容器间距	P ₃	12.7	12.7	25.4	25.4	±1.0
送带孔距	P ₀	12.7	12.7	12.7	12.7	±0.3
引出线位置	P ₁	3.85	2.60	7.7	5.2	±0.7
电容器本体位置	P ₂	6.35	6.35	12.7	12.7	±1.3
成型间距	F**	5.0	7.5	10.0	15.0	+0.8 -0.2
电容器侧面倾斜	ΔS	0	0	0	0	±2.0
电容器高度	H	20.0	20.0	20.0	20.0	±1.0
弯脚高度	H ₀	16.0	16.0	16.0	16.0	±0.5
纸带宽度	W	18.0	18.0	18.0	18.0	+1.0 -0.5
胶带纸宽度	W ₀	10min	10min	10min	10min	—
送带孔位置	W ₁	9.0	9.0	9.0	9.0	+0.75 -0.5
胶带纸位置	W ₂	3max	3max	3max	3max	—
送带孔直径	D ₀	4.0	4.0	4.0	4.0	±0.3
编带总厚度	t	0.7	0.7	0.7	0.7	±0.2

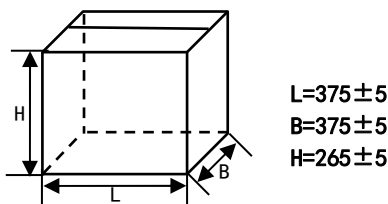
Note: * P₀=15mm is also available; * P₀=15mm 是可行的
** F can be other lead spacing; ** F 可以是其他间距的

3.3 径向编带包装箱尺寸 (Box size for Ammo-pack)

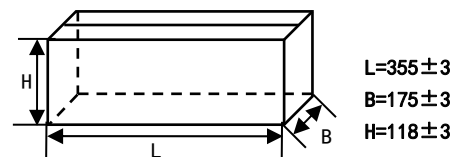


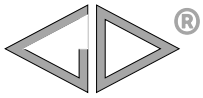
3. 包装箱尺寸 Packing in bulk (mm)

3.1 散装外包装箱尺寸 (Out packing box for bulk)



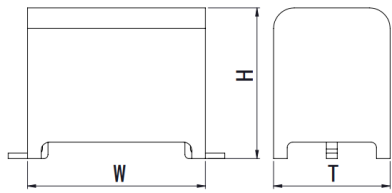
3.2 散装内包装箱尺寸 (Inner packing box for bulk)



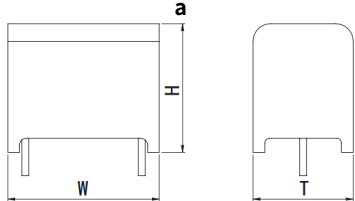


九、表面安装电容器 SMD Capacitor

■ SMD 产品外形图 Outline drawing



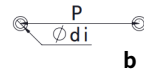
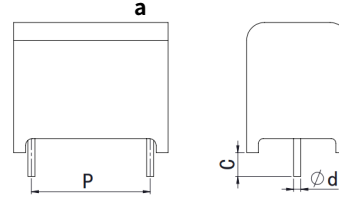
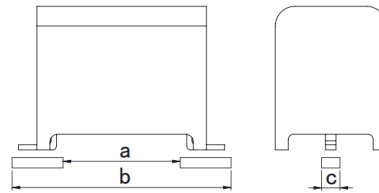
$W \pm 0.4, H \pm 0.4, T \pm 0.4$



$W \pm 0.4, H \pm 0.4, T \pm 0.4$

b

■ 安装尺寸图 Layout



b

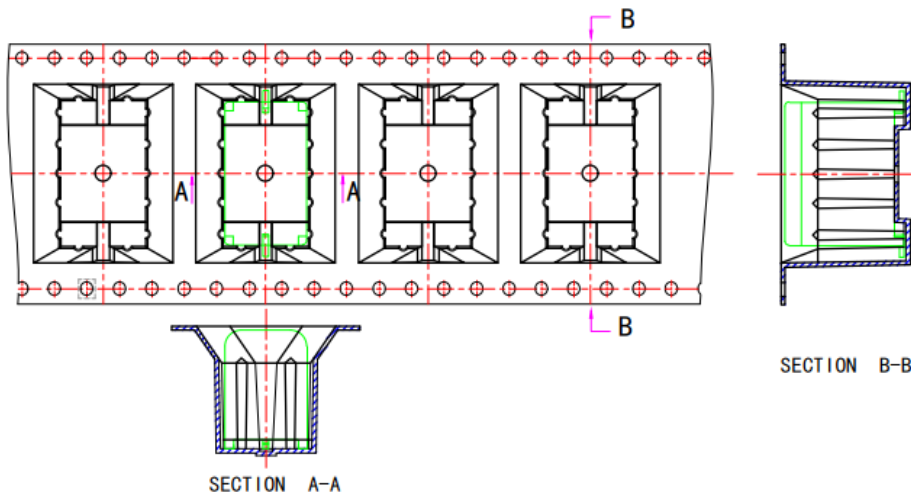
注: 产品外形 a 图和 b 图的不同只有引线成型不一样。

Note: The difference in the outline drawing between figure a and figure b is that the lead forming.

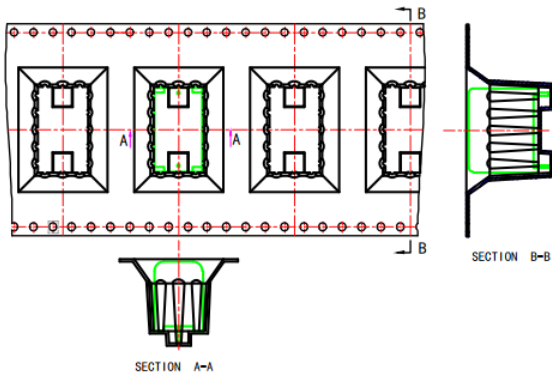
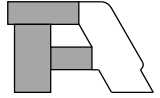
■ 安装尺寸表 Recommended PCB layout (mm)

图号 Figure No.	尺寸代码 Dimension Code	5235	7028	7032	7036	7040	7046	A544	
	产品尺寸 Dimension	W	13.0	17.5	17.5	17.5	17.5	26.5	
	T	8.5	7.0	8.0	9.0	10.0	11.5	11.0	
a	安装尺寸 Layout	a	8.4	13.4	13.4	13.4	13.4	13.4	25.5
		b	17.8	22.3	22.3	22.3	22.3	22.3	32.1
		c	1.6	1.6	1.6	1.6	1.6	1.6	1.6
b	安装尺寸 Layout	W	13.0	17.5					
		P	10.0	15.0					
		di	1.0	1.0					

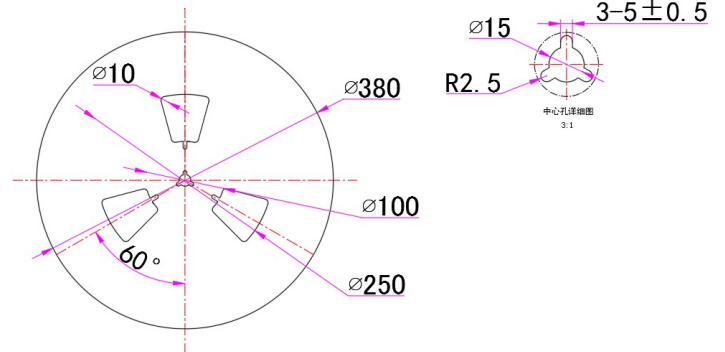
■ 包装方式 Packing



编带a Taping a



编带 b Taping



收卷盘 Packaging

十、产品编码说明 Part number system

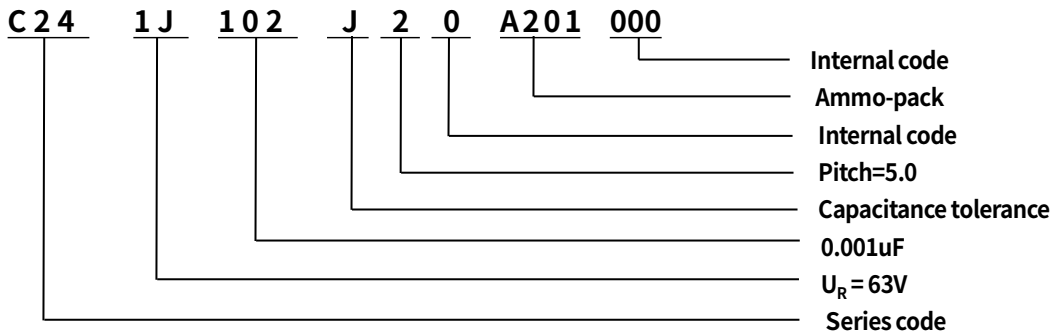
■ 15 位产品代码如下:

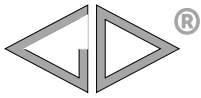
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	1	3												

- | | | | |
|-----------|--|----------------|---|
| 第 1~3 位 | 型号代码 | Digit 1 to 3 | Series code |
| 第 4~5 位 | 额定电压 (参见 table 2) | Digit 4 to 5 | Rated voltage(refer to table 2) |
| 第 6~8 位 | 标称容量 | Digit 6 to 8 | Rated capacitance value |
| | 举例: $103=10 \times 10^3 \text{pF}=0.01\mu\text{F}$ | | for example: $103=10 \times 10^3 \text{pF}=0.01\mu\text{F}$ |
| 第 9 位 | 容量偏差 | Digit 9 | Capacitance tolerance |
| | G=±2%, H=±3%, J=±5% | | G=±2%, H=±3%, J=±5% |
| | K=±10%, M=±20% | | K=±10%, M=±20% |
| 第 10 位 | 引线脚距 P (参见 table 3) | Digit 10 | Pitch(refer to table 3) |
| | (引线式产品) | | (for tinned-lead-wire type) |
| 第 10 位 | 对于 SMD 是包装代码, 参照其系列说明 | Digit 10 | Packaging code(related to SMD series) |
| 第 11 位 | 内部特征码 | Digit 11 | Internal use |
| 第 12~15 位 | 引线加工和包装代码 (参见 table 4) | Digit 12 to 15 | Lead form and packaging code(refer to table 4) |
| | (引线式产品) | | (for tinned-lead-wire type) |
| 第 12~15 位 | 对于 SMD 是安装尺寸代码, 参照其系列说明 | Digit 12 to 15 | Layout code(related to SMD series) |

■ 例如 for example





■ Table 1 型号代码对照 Series Code

代码 Code	型号 Type	代码 Code	型号 Type	代码 Code	型号 Type	代码 Code	型号 Type
C13	CBB13	C25	CL25	C40	MKP61R	C4R	MKP62+R
C14	CBB81	C26	MKT61	C42	MKP62	C82	MMKP82
C20	CL20	C30	CBB20	C43	MKP63	C84	MMKP84
C21	CL21	C31	CBB21	C44	MKP64		
C22	CL21X	C32	MKP21	C45	MKP65		
C23	CL23	C33	MKP23	C46	MKP66		
C24	CL23B	C35	MKP25	C47	MKP67		

■ Table 2 额定电压代码 Rated voltage code

	A	B	C	D	E	F	G	H	J	K	L	M	N
1			16	20				50	63			1100	
2	100	125	160	200	250	315	400	500	630	800	120		
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	1200	1400	
	P	Q	R	S	T	U	V	W	X	Y			
1	240	300	330	440	540	600	700	850	900				
2	275	305	350	450	520		760						
3	280	310		480									

说明：参考日本 JIS 标准，字母加数字表示交流，数字加字母表示直流，例如 A2 表示 100VAC，2A 表示 100VDC

Explanation: Refer to JIS standard, Letter and then number indicate AC, but number and then Letter indicate DC, for example ,2A indicate 100VDC, A2 indicate 100VAC

■ Table 3 脚距代码 Pitch code

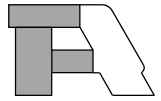
Code	0	2	3	4	5	6	8	9	A	B
Pitch	axial	5.0	7.5	10	12.5	15	20	22.5	25.0	27.5
Code	C	D	F	H	M	R				
Pitch	30	32.5	37.5	42.5	52.5	62.5				

(以上表格中不包括 CBB13,CBB11,CL11 和精密电容的脚距代码)

(The pitch code of CBB13,CBB11,CL11 and precision cap aren't included in the above table.)

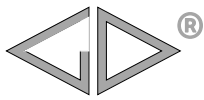
■ Table 4 引线加工和包装代码 Lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm,H=18.5mm (For pitch=5.0/7.5mm)
		3	F=7.5mm			5	P3=25.4mm;H=18.5mm (For pitch=10.0/15mm)
		4	F=10.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. among two consecutive holes P3=12.7mm,H=20.0mm (For pitch=5.0/7.5mm)
		6	F=15.0mm			E	P3=25.4mm;H=20.0mm (For pitch=10.0/15.0mm)
(Detail information refer to page 16 and 17)							
F	引线成型 lead kinked (in bulk)	2	F=5.0mm	0	B=4.5mm (the length of B)	0	B 的长度偏差±0.5mm B Length tolerance ±0.5mm
		3	F=7.5mm				
		4	F=10.0mm				
		6	F=15.0mm				
C or Y	散装切脚 straight lead or cut lead (in bulk)	代码 Code	说明 explanation		0	引线长度偏差±0.5mm 或标准长度 Length tolerance ±0.5mm(or standard length)	
		00	标准的引线长度(16mm min) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



表面安装直流电容器 Surface mounted D.C. capacitor

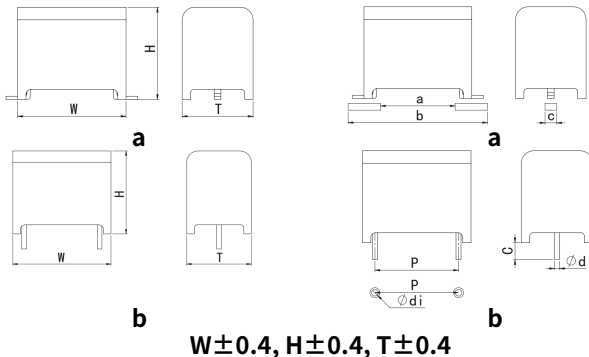
型号 Type	特征 Description	特点 Application	规格 Rating	页码 Page
C57	金属化聚酯膜, 无感卷绕结构, 塑壳封装 Metallized polyester film, non-inductive wound construction, Box-type	可靠性高, 自愈性好 无压电效应, 无极性, 无非线性失真 适用于回流焊、成本低 Reliable quality due to self-healing effect No piezoelectric effect, non-polar canstruction, non-linearity distortion Reflow-soldering, low cost	450V:0.10 μ F ~ 1.00 μ F	22



C57

表面安装塑料外壳金属化聚酯膜电容器 Metallized polyester film surface mounted capacitor (Box-type)

外形图 Outline Drawing



$W \pm 0.4, H \pm 0.4, T \pm 0.4$

注:图 a 和图 b 的不同只有引线成型不一样

Note: The difference between figure a and figure b is that the lead forming

特点

- 金属化聚酯膜, 无感卷绕结构, 塑料外壳 (UL94 V-0)
- 性能稳定, 具有良好的温度特性、频率特性、电压特性、时间稳定性和防潮特性
- 可靠性高, 自愈性好
- 无压电效应, 无极性, 无非线性失真
- 适用于回流焊、成本低

主要用途

- 用于开关电源、电子镇流器和变频器等中间电路直流滤波

Features

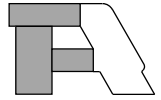
- Metallized polyester film, non-inductive wound construction, Plastic case (UL94 V-0)
- Stability versus temperature, frequency, voltage, time and humidity
- Reliable quality due to self-healing effect
- No piezoelectric effect, non-polar construction, non-linearity distortion
- Reflow-soldering, low cost

Typical Applications

- As intermediate circuit capacitors for SMPS, Electronic Ballast, inverter

技术要求 Specifications

引用标准 Reference Standard	GB/T 15448 (IEC 60384-19)			
气候类别 Climatic Category	40/105/56			
额定温度 Rated Temperature	85°C			
工作温度 Operating Temperature Range	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)			
额定电压 Rated Voltage	450V			
电容量范围 Capacitance Range	0.0010μF~1.00μF			
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M), -5%~+10%(6)			
耐电压 Voltage Proof	1.5 U_R (5s)			
损耗角正切 Dissipation Factor	≤0.8%(20°C, 1kHz)			
绝缘电阻 Insulation Resistance	R ≥ 10 000MΩ, $C_N \leq 0.33\mu F$ RC _N ≥ 6 000s, $C_N > 0.33\mu F$		(20°C, 100V, 1min)	
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	$U_R(V)$	dV/dt(V/μs)		
		W=13.0	W=17.5	W=26.5
	450	30	20	10
焊接工艺 Welding process	回流焊(Reflow soldering recommended)			



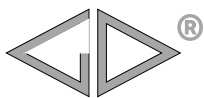
■ 产品编码说明 Part number system

15 位产品代码如下:

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	5	7												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C57		C57
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2S=450V		2S=450V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 104=10×10⁴pF=0.10μF		for example: 104=10×10⁴pF=0.10μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%		J=±5%, K=±10%
	M=±20%, 6=-5%~+10%		M=±20%, 6=-5%~+10%
第 10 位	包装代码	Digit 10	Packing code
	0=散装, 1=载带(参见第 18 页)		0=bulk,1=taping (refer to page 18)
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	安装尺寸	Digit 12 to 15	Layout code



C57

■ 外形尺寸 Dimensions(mm)

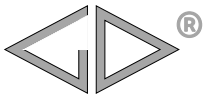
450Vdc					
C _N (μF)	Size	W	H	T	Part number
0.10	5235	13.0	11.0	8.5	C572S104-#05235
☆0.15	7028	17.5	11.0	7.0	C572S154-#07028
☆0.22	7032	17.5	12.0	8.0	C572S224-#07032
☆0.33	7036	17.5	13.0	9.0	C572S334-#07036
0.47	7040	17.5	14.5	10.0	C572S474-#07040
☆0.68	7046	17.5	16.0	11.5	C572S684-#07046
1.00	A544	26.5	16.5	11.0	C572S105-#0A544
0.10	5235	13.0	11.0	8.5	C572S104-#T****
☆0.15	7028	17.5	11.0	7.0	C572S154-#T****
☆0.22	7032	17.5	12.0	8.0	C572S224-#T****
☆0.33	7036	17.5	13.0	9.0	C572S334-#T****
0.47	7040	17.5	14.5	10.0	C572S474-#T****
☆0.68	7046	17.5	16.0	11.5	C572S684-#T****
1.00	A544	26.5	16.5	11.0	C572S105-#T****

- 备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. 6=-5%~+10%, M=±20%, K=±10%, J=±5%。
 2. “#” 表示包装代码。0 表示散装, 1 表示编带(参见 18 页)。“#” = packing code,0=bulk,1=taping (refer to page 18).
 3. “****” 表示安装尺寸码(参见 18 页)。“****” = Layout code (refer to page 18).
 4. “☆” 表示该规格尺寸预估, 其他电压、容量请咨询工程师。
 “☆” =The Size estimates, Other voltage and capacity please consult Engineer specific issues.



聚萘乙酯膜电容器 Polyethylene Naphthalate Capacitors

型号 Type	特征 Description	特点 Application	规格 Rating	页码 Page
C92	金属化, 无封装 Metallized,uncoated	使用温度范围广 (-55°C~+150°C)	250V: 0.0010 μ F ~ 0.10 μ F 400V: 0.010 μ F ~ 0.22 μ F 630V: 0.010 μ F ~ 0.047 μ F 1000V: 0.0022 μ F ~ 0.080 μ F	26

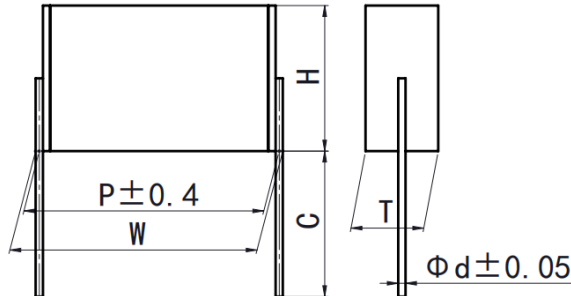


C92

无外封装金属化聚萘乙酯膜叠片式电容器

Metallized polyethylene naphthalate film capacitor(Stacked version,uncoated)

外形图 Outline Drawing



特点

- 高脉冲能力
- 高可靠性
- 高使用温度范围(-55°C ~ +150°C)

主要用途

- 广泛用于大功率紧凑型节能灯和电子照明(如汽车 HID 灯)
- 直流脉动和脉冲电路中(高温环境下)

Features

- High pulse strength
- High reliability
- Operating temperature:(-55°C ~ +150°C)

Typical Applications

- Widely used in high-power CFL and electric lighting (i.e. Automotive HID lamps)
- DC impulse and pulse circuits(High temperature condition)

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)			
气候类别 Climatic Category	55/150/56			
额定温度 Rated Temperature	125°C			
工作温度 Operating Temperature Range	-55°C~150°C (+125°C to +150°C: decreasing factor 1.25% per °C for U _R)			
额定电压 Rated Voltage	250V, 400V, 630V, 1 000V			
电容量范围 Capacitance Range	0.0010μF~0.22μF			
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)			
耐电压 Voltage Proof	1.4U _R (5s)			
损耗角正切 Dissipation Factor	≤0.8% (20°C,1kHz) ≤1.5% (20°C,10kHz)			
绝缘电阻 Insulation Resistance	≥7 500MΩ(20°C, 100V, 1min)			
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)		
			P=5.0	P=7.5
	250	250	200	150
	400	300	275	175
	630	4 000	3 000	2 000
1 000	5 000	4 000	3 000	
储存条件 (Storage condition)	温度不超过 35°C, 湿度不超过 75%RH,保存 6 个月。 超过 6 个月, 在 70°C±5°C烘箱内, 烘 24 个小时再使用。 Temperature:≤35°C, Humidity:≤75%RH, Storage time:≤6 months. If more than 6 months, please dry for 24 h at 70°C±5°C before use.			



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

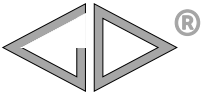
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	9	2												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C92		C92
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2E=250V 2G=400V		2E=250V 2G=400V
	2J=630V 3A=1000V		2J=630V 3A=1000V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm 3=7.5mm 4=10.0mm		2=5.0mm 3=7.5mm 4=10.0mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=5.0/7.5mm)
		3	F=7.5mm			2	载带孔在产品的引线之间 each hole between two leads of a cap. P3=12.7mm, H=18.5mm(For pitch=10.0mm)
		4	F=10.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~22mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



C92

■ 外形尺寸 Dimensions(mm)

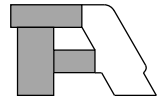
250Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.3	2.0	5.0	0.6	C922E102-20****
0.0027	6.5	4.6	2.2	5.0	0.6	C922E272-20****
0.0047	6.5	3.3	2.0	5.0	0.6	C922E472-20****
0.0068	6.5	3.4	2.0	5.0	0.6	C922E682-20****
0.010	6.5	3.9	2.0	5.0	0.6	C922E103-20****
0.027	6.5	4.4	2.3	5.0	0.6	C922E273-20****
0.047	6.5	5.0	3.0	5.0	0.6	C922E473-20****
0.068	6.5	5.3	3.7	5.0	0.6	C922E683-20****
0.10	9.0	6.2	3.2	7.5	0.6	C922E104-30****

400Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number
0.01	6.5	4.0	2.2	5.0	0.6	C922G103-20****
0.027	6.5	5.3	3.4	5.0	0.6	C922G273-20****
0.047	6.5	6.9	4.2	5.0	0.6	C922G473-20****
0.068	9.0	6.5	4.2	7.5	0.6	C922G683-30****
0.1	9.0	7.6	5.0	7.5	0.6	C922G104-30****
0.15	11.5	7.3	5.4	10.0	0.6	C922G154-40****
0.22	11.5	9.2	6.2	10.0	0.6	C922G224-40****

630Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0068	9.0	5.3	3.5	7.5	0.6	C922J682-30****
0.01	9.0	6.9	3.8	7.5	0.6	C922J103-30****
0.015	11.5	5.6	3.2	10.0	0.6	C922J153-40****
0.027	11.5	7.3	4.0	10.0	0.6	C922J273-40****
0.047	11.5	8.6	5.4	10.0	0.6	C922J473-40****

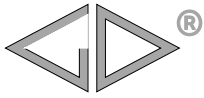
1 000Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0022	9.0	4.8	3.0	7.5	0.6	C923A222-30****
0.0033	9.0	5.5	3.6	7.5	0.6	C923A332-30****
0.0056	9.0	6.6	4.7	7.5	0.6	C923A562-30****
0.0082	9.0	7.6	5.7	7.5	0.6	C923A822-30****
0.010	11.5	5.4	3.7	10.0	0.6	C923A103-40****
0.027	11.5	8.4	5.6	10.0	0.6	C923A273-40****
0.047	11.5	11.7	6.8	10.0	0.6	C923A473-40****
0.068	11.5	13.8	8.0	10.0	0.6	C923A683-40****
0.070	11.5	14.0	8.1	10.0	0.6	C923A703-40****
0.080	11.5	15.1	8.8	10.0	0.6	C923A803-40****

- 备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code(refer to table 1).



聚酯膜电容器 Polyester Capacitors

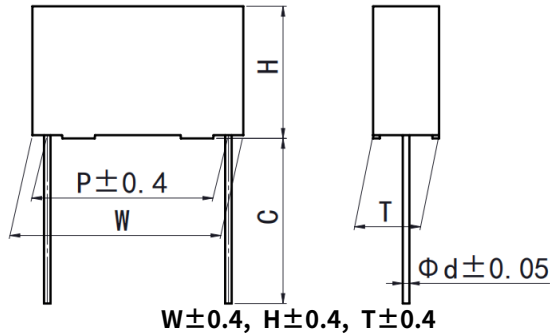
型号 Type	特征 Description	特点 Application	规格 Rating	页码 Page
C24 (CL23B)	叠片式, 金属化, 盒式封装 Stacked, metallized, box-type (P=5.0mm)	性能优越, 可用于高脉冲场合 High performances, pules application	50/63V: 0.0010 μ F ~ 2.2 μ F 100V: 0.0010 μ F ~ 1.0 μ F 250V: 0.0010 μ F ~ 0.22 μ F 400V: 0.0010 μ F ~ 0.1 μ F 500V: 0.0010 μ F ~ 0.033 μ F 630V: 0.0010 μ F ~ 0.018 μ F 700V: 0.0010 μ F ~ 0.022 μ F	30
C25 (CL25)	叠片式, 金属化, 无封装 Stacked, metallized, uncoated	性能优越, 可用于高脉冲场合 High performances, pules application	63V: 0.0010 μ F ~ 6.8 μ F 100V: 0.0010 μ F ~ 10.0 μ F 250V: 0.0010 μ F ~ 3.3 μ F 400V: 0.0010 μ F ~ 1.0 μ F 630V: 0.0010 μ F ~ 0.47 μ F 1000V: 0.0010 μ F ~ 0.033 μ F	35
C28	叠片式, 金属化, 浸渍型 Stacked, metallized, dipped (P=5.0mm/7.5mm)	性能优越, 可用于高脉冲场合 High performances, pules application	50V: 0.010 μ F ~ 3.3 μ F 63V: 0.010 μ F ~ 3.3 μ F 100V: 0.010 μ F ~ 1.0 μ F 250V: 0.010 μ F ~ 0.22 μ F	40
C21 (CL21)	金属化, 浸渍型 Metallized, dipped	多用途 Multipurpose applications	50/63/100V: 0.12 μ F ~ 10.0 μ F 250V: 0.010 μ F ~ 10.0 μ F 400V: 0.010 μ F ~ 4.7 μ F 630V: 0.010 μ F ~ 2.2 μ F 1000V: 0.0010 μ F ~ 0.39 μ F 1250V: 0.0010 μ F ~ 0.22 μ F	44
C23 (CL23)	金属化, 盒式封装 Metallized, box-type	性能优越, 多用途 High performances, multipurpose applications	63V: 0.47 μ F ~ 47.0 μ F 100V: 0.22 μ F ~ 33.0 μ F 250V: 0.068 μ F ~ 10.0 μ F 400V: 0.022 μ F ~ 6.8 μ F 630V: 0.0022 μ F ~ 1.0 μ F 1000: 0.0010 μ F ~ 1.5 μ F	50
C22 (CL21X)	金属化, 浸渍型 Metallized, dipped	用于开关电源、电子镇流器和 变频器等中间电路直流滤波 As intermediate circuit capacitors for SMPS, Electronic Ballast, inverter	250V: 0.22 μ F ~ 10.0 μ F 400/450V: 0.047 μ F ~ 3.3 μ F 520V: 0.022 μ F ~ 2.2 μ F 630V: 0.010 μ F ~ 1.5 μ F	54
C20 (CL20)	金属化, 轴向 Metallized, axial type	结构稳定, 多用途 Good structure stability multipurpose applications	50/63V: 0.33 μ F ~ 10 μ F 100V: 0.068 μ F ~ 10 μ F 250V: 0.047 μ F ~ 6.8 μ F 400V: 0.010 μ F ~ 3.3 μ F 630V: 0.0010 μ F ~ 1.0 μ F 1000V: 0.0010 μ F ~ 0.47 μ F	59



C24
CL23B series

塑料外壳金属化聚酯膜叠片式电容器 (P=5.0) Box-type metallized polyester film capacitor (Stacked version)

外形图 Outline Drawing



特点

- 金属化聚酯膜，叠片式结构
- 塑料外壳(UL94 V-0)，环氧填充
- 抗脉冲能力强

主要用途

- 旁路，隔直，耦合，退耦
- 脉冲，逻辑，定时，紧凑型节能灯
- LCD 监视器整流，汽车直流马达抑制干扰

Features

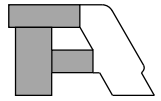
- Metallized polyester film, stacked construction
- Plastic case(UL94 V-0), epoxy resin sealing
- High dv/dt ability

Typical Applications

- By-passing, blocking, coupling, decoupling
- Pulse logic, timing, compact fluorescent lamps
- Inverter for LCD monitors, automotive DC motor suppression

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)		
气候类别 Climatic Category	55/125/56		
额定温度 Rated Temperature	85°C		
工作温度 Operating Temperature Range	-55°C~125°C (+85°C to +125°C: decreasing factor 1.25% per °C for U _R)		
额定电压 Rated Voltage	50/63V, 100V, 250V, 400V, 500V, 630V, 700V		
电容量范围 Capacitance Range	0.0010μF~2.2μF		
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)		
耐电压 Voltage Proof	1.4U _R (5s)		
损耗角正切 Dissipation Factor	Frequency	C _N ≤ 0.1μF	C _N > 0.1μF
	1kHz	≤ 1.0%	≤ 1.0%
	10kHz	≤ 1.5%	≤ 1.5%
	100kHz	≤ 3.0%	-
绝缘电阻 Insulation Resistance	U _R > 100V	R ≥ 30 000MΩ, C _N ≤ 0.33μF R _{CN} ≥ 10 000s, C _N > 0.33μF	U _R ≥ 100V, 充电电压 100V
	U _R ≤ 100V	R ≥ 15 000MΩ, C _N ≤ 0.33μF R _{CN} ≥ 5 000s, 0.33μF < C _N ≤ 1μF R _{CN} ≥ 1 000s, C _N > 1μF	U _R < 100V, 充电电压 10V (20°C, 1min)
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)	
		Pattern I	Pattern II
	50/63	250	75
	100	300	85
	250	400	100
	400	600	150
	500	700	200
	630	800	200
700	-	250	



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

C24 Pattern I (High performance)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	4							2	0				

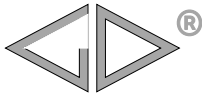
C24 Pattern II (Reduced sizes)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	4							2	S				

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C24=CL23B		C24=CL23B
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	1H=50V 1J=63V 2A=100V 2E=250V		1H=50V 1J=63V 2A=100V 2E=250V
	2G=400V 2H=500V 2J=630V 1V=700V		2G=400V 2H=500V 2J=630V 1V=700V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%,K=±10%,M=±20%		J=±5%,K=±10%,M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm		2=5.0mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=5.0mm) (Detail parameter refer to page 16)
C	直脚 straight lead "C" in the figure above	代码 Code	说明 explanation			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(16mm~22mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



C24
CL23B series

■ 外形尺寸 Dimensions(mm)

电容器厚度(Capacitor Thickness)T	≤3.5	>3.5
外形尺寸偏差 Dimension Tolerance(W, H, T)	±0.2	±0.4

Pattern II(Reduced sizes)

50Vdc (30Vac) /63Vdc (40Vac) #							100Vdc(63Vac)							250Vdc(140Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.15	7.2	6.5	2.5	5.0	0.5	C241J154-2S****	0.10	7.2	6.5	2.5	5.0	0.5	C242A104-2S****	0.022	7.2	6.5	2.5	5.0	0.5	C242E223-2S****
0.18	7.2	6.5	2.5	5.0	0.5	C241J184-2S****	0.12	7.2	6.5	2.5	5.0	0.5	C242A124-2S****	0.027	7.2	6.5	2.5	5.0	0.5	C242E273-2S****
0.22	7.2	6.5	2.5	5.0	0.5	C241J224-2S****	0.15	7.2	7.5	3.5	5.0	0.5	C242A154-2S****	0.033	7.2	6.5	2.5	5.0	0.5	C242E333-2S****
0.27	7.2	6.5	2.5	5.0	0.5	C241J274-2S****	0.18	7.2	7.5	3.5	5.0	0.5	C242A184-2S****	0.039	7.2	7.5	3.5	5.0	0.5	C242E393-2S****
0.33	7.2	7.5	3.5	5.0	0.5	C241J334-2S****	0.22	7.2	7.5	3.5	5.0	0.5	C242A224-2S****	0.047	7.2	7.5	3.5	5.0	0.5	C242E473-2S****
0.39	7.2	7.5	3.5	5.0	0.5	C241J394-2S****	0.27	7.2	9.5	4.5	5.0	0.6	C242A274-2S****	0.056	7.2	7.5	3.5	5.0	0.5	C242E563-2S****
0.47	7.2	7.5	3.5	5.0	0.5	C241J474-2S****	0.33	7.2	9.5	4.5	5.0	0.6	C242A334-2S****	0.068	7.2	7.5	3.5	5.0	0.5	C242E683-2S****
0.56	7.2	9.5	4.5	5.0	0.6	C241J564-2S****	0.39	7.2	9.5	4.5	5.0	0.6	C242A394-2S****	0.082	7.2	9.5	4.5	5.0	0.6	C242E823-2S****
0.68	7.2	9.5	4.5	5.0	0.6	C241J684-2S****	0.47	7.2	10.0	5.0	5.0	0.6	C242A474-2S****	0.10	7.2	9.5	4.5	5.0	0.6	C242E104-2S****
0.82	7.2	9.5	4.5	5.0	0.6	C241J824-2S****	0.56	7.2	10.0	5.0	5.0	0.6	C242A564-2S****	0.12	7.2	9.5	4.5	5.0	0.6	C242E124-2S****
1.0	7.2	10.0	5.0	5.0	0.6	C241J105-2S****	0.68	7.2	11.0	6.0	5.0	0.6	C242A684-2S****	0.15	7.2	10.0	5.0	5.0	0.6	C242E154-2S****
1.5	7.2	11.0	6.0	5.0	0.6	C241J155-2S****	0.82	7.2	11.0	6.0	5.0	0.6	C242A824-2S****	0.18	7.2	11.0	6.0	5.0	0.6	C242E184-2S****
2.2	7.2	11.0	6.0	5.0	0.6	C241J225-2S****	1.0	7.2	11.0	6.0	5.0	0.6	C242A105-2S****	0.22	7.2	11.0	6.0	5.0	0.6	C242E224-2S****

400Vdc (160Vac)							500/630Vdc(220Vac) #							700V dc (250Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0056	7.2	6.5	2.5	5.0	0.5	C242G562-2S****	0.0018	7.2	6.5	2.5	5.0	0.5	C242J182-2S****	0.0010	7.2	6.5	2.5	5.0	0.5	C241V102-2S****
0.0068	7.2	6.5	2.5	5.0	0.5	C242G682-2S****	0.0022	7.2	6.5	2.5	5.0	0.5	C242J222-2S****	0.0012	7.2	6.5	2.5	5.0	0.5	C241V122-2S****
0.0082	7.2	6.5	2.5	5.0	0.5	C242G822-2S****	0.0027	7.2	6.5	2.5	5.0	0.5	C242J272-2S****	0.0015	7.2	6.5	2.5	5.0	0.5	C241V152-2S****
0.010	7.2	6.5	2.5	5.0	0.5	C242G103-2S****	0.0033	7.2	6.5	2.5	5.0	0.5	C242J332-2S****	0.0018	7.2	6.5	2.5	5.0	0.5	C241V182-2S****
0.012	7.2	6.5	2.5	5.0	0.5	C242G123-2S****	0.0039	7.2	6.5	2.5	5.0	0.5	C242J392-2S****	0.0022	7.2	6.5	2.5	5.0	0.5	C241V222-2S****
0.015	7.2	7.5	3.5	5.0	0.5	C242G153-2S****	0.0047	7.2	6.5	2.5	5.0	0.5	C242J472-2S****	0.0027	7.2	6.5	2.5	5.0	0.5	C241V272-2S****
0.018	7.2	7.5	3.5	5.0	0.5	C242G183-2S****	0.0056	7.2	7.5	3.5	5.0	0.5	C242J562-2S****	0.0033	7.2	7.5	3.5	5.0	0.5	C241V332-2S****
0.022	7.2	7.5	3.5	5.0	0.5	C242G223-2S****	0.0068	7.2	7.5	3.5	5.0	0.5	C242J682-2S****	0.0039	7.2	7.5	3.5	5.0	0.5	C241V392-2S****
0.027	7.2	7.5	3.5	5.0	0.5	C242G273-2S****	0.0082	7.2	7.5	3.5	5.0	0.5	C242J822-2S****	0.0047	7.2	7.5	3.5	5.0	0.5	C241V472-2S****
0.033	7.2	9.5	4.5	5.0	0.6	C242G333-2S****	0.010	7.2	7.5	3.5	5.0	0.5	C242J103-2S****	0.0056	7.2	7.5	3.5	5.0	0.5	C241V562-2S****
0.039	7.2	9.5	4.5	5.0	0.6	C242G393-2S****	0.012	7.2	9.5	4.5	5.0	0.6	C242J123-2S****	0.0068	7.2	7.5	3.5	5.0	0.5	C241V682-2S****
0.047	7.2	9.5	4.5	5.0	0.6	C242G473-2S****	0.015	7.2	9.5	4.5	5.0	0.6	C242J153-2S****	0.0082	7.2	9.5	4.5	5.0	0.6	C241V822-2S****
0.051	7.2	10.0	5.0	5.0	0.6	C242G513-2S****	0.018	7.2	9.5	4.5	5.0	0.6	C242J183-2S****	0.010	7.2	9.5	4.5	5.0	0.6	C241V103-2S****
0.056	7.2	11.0	6.0	5.0	0.6	C242G563-2S****	0.022	7.2	10.0	5.0	5.0	0.6	C242J223-2S****	0.012	7.2	9.5	4.5	5.0	0.6	C241V123-2S****
0.068	7.2	11.0	6.0	5.0	0.6	C242G683-2S****	0.027	7.2	11.0	6.0	5.0	0.6	C242J273-2S****	0.015	7.2	10.0	5.0	5.0	0.6	C241V153-2S****
0.082	7.2	11.0	6.0	5.0	0.6	C242G823-2S****	0.033	7.2	11.0	6.0	5.0	0.6	C242J333-2S****	0.018	7.2	11.0	6.0	5.0	0.6	C241V183-2S****
0.10	7.2	11.0	6.0	5.0	0.6	C242G104-2S****								0.022	7.2	11.0	6.0	5.0	0.6	C241V223-2S****

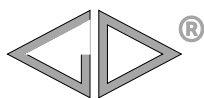
- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 50Vdc, 500Vdc 时, 第4~5位是 1H 和 2H。
 “#” when the rated voltage is 50Vdc, 500Vdc, the digit 4~5 is 1H, 2H.



■ 外形尺寸 Dimensions(mm)
Pattern I (High performance)

50Vdc (30Vac) /63Vdc (40Vac) #							100Vdc (63Vac)							250V dc (160Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C241J102-20****	0.0010	7.2	6.5	2.5	5.0	0.5	C242A102-20****	0.0010	7.2	6.5	2.5	5.0	0.5	C242E102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C241J122-20****	0.0012	7.2	6.5	2.5	5.0	0.5	C242A122-20****	0.0012	7.2	6.5	2.5	5.0	0.5	C242E122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C241J152-20****	0.0015	7.2	6.5	2.5	5.0	0.5	C242A152-20****	0.0015	7.2	6.5	2.5	5.0	0.5	C242E152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C241J182-20****	0.0018	7.2	6.5	2.5	5.0	0.5	C242A182-20****	0.0018	7.2	6.5	2.5	5.0	0.5	C242E182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C241J222-20****	0.0022	7.2	6.5	2.5	5.0	0.5	C242A222-20****	0.0022	7.2	6.5	2.5	5.0	0.5	C242E222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C241J272-20****	0.0027	7.2	6.5	2.5	5.0	0.5	C242A272-20****	0.0027	7.2	6.5	2.5	5.0	0.5	C242E272-20****
0.0033	7.2	6.5	2.5	5.0	0.5	C241J332-20****	0.0033	7.2	6.5	2.5	5.0	0.5	C242A332-20****	0.0033	7.2	6.5	2.5	5.0	0.5	C242E332-20****
0.0039	7.2	6.5	2.5	5.0	0.5	C241J392-20****	0.0039	7.2	6.5	2.5	5.0	0.5	C242A392-20****	0.0039	7.2	6.5	2.5	5.0	0.5	C242E392-20****
0.0047	7.2	6.5	2.5	5.0	0.5	C241J472-20****	0.0047	7.2	6.5	2.5	5.0	0.5	C242A472-20****	0.0047	7.2	6.5	2.5	5.0	0.5	C242E472-20****
0.0056	7.2	6.5	2.5	5.0	0.5	C241J562-20****	0.0056	7.2	6.5	2.5	5.0	0.5	C242A562-20****	0.0056	7.2	6.5	2.5	5.0	0.5	C242E562-20****
0.0068	7.2	6.5	2.5	5.0	0.5	C241J682-20****	0.0068	7.2	6.5	2.5	5.0	0.5	C242A682-20****	0.0068	7.2	6.5	2.5	5.0	0.5	C242E682-20****
0.0082	7.2	6.5	2.5	5.0	0.5	C241J822-20****	0.0082	7.2	6.5	2.5	5.0	0.5	C242A822-20****	0.0082	7.2	6.5	2.5	5.0	0.5	C242E822-20****
0.010	7.2	6.5	2.5	5.0	0.5	C241J103-20****	0.010	7.2	6.5	2.5	5.0	0.5	C242A103-20****	0.010	7.2	6.5	2.5	5.0	0.5	C242E103-20****
0.012	7.2	6.5	2.5	5.0	0.5	C241J123-20****	0.012	7.2	6.5	2.5	5.0	0.5	C242A123-20****	0.012	7.2	6.5	2.5	5.0	0.5	C242E123-20****
0.015	7.2	6.5	2.5	5.0	0.5	C241J153-20****	0.015	7.2	6.5	2.5	5.0	0.5	C242A153-20****	0.015	7.2	6.5	2.5	5.0	0.5	C242E153-20****
0.018	7.2	6.5	2.5	5.0	0.5	C241J183-20****	0.018	7.2	6.5	2.5	5.0	0.5	C242A183-20****	0.018	7.2	6.5	2.5	5.0	0.5	C242E183-20****
0.022	7.2	6.5	2.5	5.0	0.5	C241J223-20****	0.022	7.2	6.5	2.5	5.0	0.5	C242A223-20****	0.022	7.2	7.5	3.5	5.0	0.5	C242E223-20****
0.027	7.2	6.5	2.5	5.0	0.5	C241J273-20****	0.027	7.2	6.5	2.5	5.0	0.5	C242A273-20****	0.027	7.2	7.5	3.5	5.0	0.5	C242E273-20****
0.033	7.2	6.5	2.5	5.0	0.5	C241J333-20****	0.033	7.2	6.5	2.5	5.0	0.5	C242A333-20****	0.033	7.2	7.5	3.5	5.0	0.5	C242E333-20****
0.039	7.2	6.5	2.5	5.0	0.5	C241J393-20****	0.039	7.2	6.5	2.5	5.0	0.5	C242A393-20****	0.039	7.2	7.5	3.5	5.0	0.5	C242E393-20****
0.047	7.2	6.5	2.5	5.0	0.5	C241J473-20****	0.047	7.2	6.5	2.5	5.0	0.5	C242A473-20****	0.047	7.2	9.5	4.5	5.0	0.6	C242E473-20****
0.056	7.2	6.5	2.5	5.0	0.5	C241J563-20****	0.056	7.2	6.5	2.5	5.0	0.5	C242A563-20****	0.056	7.2	9.5	4.5	5.0	0.6	C242E563-20****
0.068	7.2	6.5	2.5	5.0	0.5	C241J683-20****	0.068	7.2	6.5	2.5	5.0	0.5	C242A683-20****	0.068	7.2	9.5	4.5	5.0	0.6	C242E683-20****
0.082	7.2	6.5	2.5	5.0	0.5	C241J823-20****	0.082	7.2	6.5	2.5	5.0	0.5	C242A823-20****	0.082	7.2	10.0	5.0	5.0	0.6	C242E823-20****
0.10	7.2	6.5	2.5	5.0	0.5	C241J104-20****	0.10	7.2	7.5	3.5	5.0	0.5	C242A104-20****	0.10	7.2	10.0	5.0	5.0	0.6	C242E104-20****
0.12	7.2	6.5	2.5	5.0	0.5	C241J124-20****	0.12	7.2	9.5	4.5	5.0	0.6	C242A124-20****	0.12	7.2	11.0	6.0	5.0	0.6	C242E124-20****
0.15	7.2	7.5	3.5	5.0	0.5	C241J154-20****	0.15	7.2	9.5	4.5	5.0	0.6	C242A154-20****	0.15	7.2	11.0	6.0	5.0	0.6	C242E154-20****
0.18	7.2	7.5	3.5	5.0	0.5	C241J184-20****	0.18	7.2	9.5	4.5	5.0	0.6	C242A184-20****							
0.22	7.2	7.5	3.5	5.0	0.5	C241J224-20****	0.22	7.2	10.0	5.0	5.0	0.6	C242A224-20****							
0.27	7.2	9.5	4.5	5.0	0.6	C241J274-20****	0.27	7.2	10.0	5.0	5.0	0.6	C242A274-20****							
0.33	7.2	9.5	4.5	5.0	0.6	C241J334-20****	0.33	7.2	11.0	6.0	5.0	0.6	C242A334-20****							
0.39	7.2	9.5	4.5	5.0	0.6	C241J394-20****	0.39	7.2	11.0	6.0	5.0	0.6	C242A394-20****							
0.47	7.2	10.0	5.0	5.0	0.6	C241J474-20****	0.47	7.2	11.0	6.0	5.0	0.6	C242A474-20****							
0.56	7.2	10.0	5.0	5.0	0.6	C241J564-20****	0.56	7.2	11.0	6.0	5.0	0.6	C242A564-20****							
0.68	7.2	11.0	6.0	5.0	0.6	C241J684-20****														
0.82	7.2	11.0	6.0	5.0	0.6	C241J824-20****														
1.0	7.2	11.0	6.0	5.0	0.6	C241J105-20****														

- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 50Vdc, 500Vdc 时, 第 4~5 位是 1H 和 2H。
 “#” when the rated voltage is 50Vdc, 500Vdc, the digit 4~5 is 1H, 2H.



■ 外形尺寸 Dimensions(mm)
Pattern I (High performance)

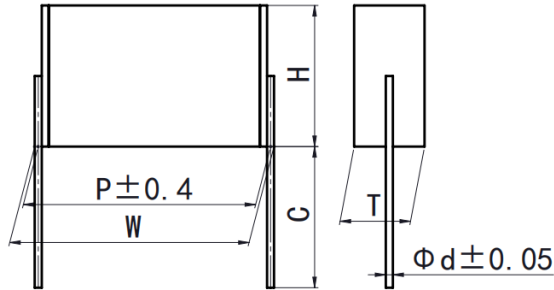
400Vdc (200Vac)							500Vdc (220Vac)							630V dc (220Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	6.5	2.5	5.0	0.5	C242G102-20****	0.0010	7.2	6.5	2.5	5.0	0.5	C242H102-20****	0.001	7.2	6.5	2.5	5.0	0.5	C242J102-20****
0.0012	7.2	6.5	2.5	5.0	0.5	C242G122-20****	0.0012	7.2	6.5	2.5	5.0	0.5	C242H122-20****	0.001	7.2	6.5	2.5	5.0	0.5	C242J122-20****
0.0015	7.2	6.5	2.5	5.0	0.5	C242G152-20****	0.0015	7.2	6.5	2.5	5.0	0.5	C242H152-20****	0.001	7.2	6.5	2.5	5.0	0.5	C242J152-20****
0.0018	7.2	6.5	2.5	5.0	0.5	C242G182-20****	0.0018	7.2	6.5	2.5	5.0	0.5	C242H182-20****	0.001	7.2	7.5	3.5	5.0	0.5	C242J182-20****
0.0022	7.2	6.5	2.5	5.0	0.5	C242G222-20****	0.0022	7.2	6.5	2.5	5.0	0.5	C242H222-20****	0.002	7.2	7.5	3.5	5.0	0.5	C242J222-20****
0.0027	7.2	6.5	2.5	5.0	0.5	C242G272-20****	0.0027	7.2	6.5	2.5	5.0	0.5	C242H272-20****	0.002	7.2	7.5	3.5	5.0	0.5	C242J272-20****
0.0033	7.2	6.5	2.5	5.0	0.5	C242G332-20****	0.0033	7.2	7.5	3.5	5.0	0.5	C242H332-20****	0.003	7.2	7.5	3.5	5.0	0.5	C242J332-20****
0.0039	7.2	6.5	2.5	5.0	0.5	C242G392-20****	0.0039	7.2	7.5	3.5	5.0	0.5	C242H392-20****	0.003	7.2	7.5	3.5	5.0	0.5	C242J392-20****
0.0047	7.2	6.5	2.5	5.0	0.5	C242G472-20****	0.0047	7.2	7.5	3.5	5.0	0.5	C242H472-20****	0.004	7.2	9.5	4.5	5.0	0.6	C242J472-20****
0.0056	7.2	7.5	3.5	5.0	0.5	C242G562-20****	0.0056	7.2	7.5	3.5	5.0	0.5	C242H562-20****	0.005	7.2	9.5	4.5	5.0	0.6	C242J562-20****
0.0068	7.2	7.5	3.5	5.0	0.5	C242G682-20****	0.0068	7.2	9.5	4.5	5.0	0.6	C242H682-20****	0.006	7.2	9.5	4.5	5.0	0.6	C242J682-20****
0.0082	7.2	7.5	3.5	5.0	0.5	C242G822-20****	0.0082	7.2	9.5	4.5	5.0	0.6	C242H822-20****	0.008	7.2	9.5	4.5	5.0	0.6	C242J822-20****
0.010	7.2	7.5	3.5	5.0	0.5	C242G103-20****	0.010	7.2	9.5	4.5	5.0	0.6	C242H103-20****	0.010	7.2	10.0	5.0	5.0	0.6	C242J103-20****
0.012	7.2	9.5	4.5	5.0	0.6	C242G123-20****	0.012	7.2	9.5	4.5	5.0	0.6	C242H123-20****	0.012	7.2	11.0	6.0	5.0	0.6	C242J123-20****
0.015	7.2	9.5	4.5	5.0	0.6	C242G153-20****	0.015	7.2	10.0	5.0	5.0	0.6	C242H153-20****	0.015	7.2	11.0	6.0	5.0	0.6	C242J153-20****
0.018	7.2	9.5	4.5	5.0	0.6	C242G183-20****	0.018	7.2	11.0	6.0	5.0	0.6	C242H183-20****	0.018	7.2	11.0	6.0	5.0	0.6	C242J183-20****
0.022	7.2	10.0	5.0	5.0	0.6	C242G223-20****	0.022	7.2	11.0	6.0	5.0	0.6	C242H223-20****							
0.027	7.2	11.0	6.0	5.0	0.6	C242G273-20****	0.027	7.2	11.0	6.0	5.0	0.6	C242H273-20****							
0.033	7.2	11.0	6.0	5.0	0.6	C242G333-20****														
0.039	7.2	11.0	6.0	5.0	0.6	C242G393-20****														
0.047	7.2	11.0	6.0	5.0	0.6	C242G473-20****														

备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%.
2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code(refer to table 1).



无外封装金属化聚酯膜叠片式电容器 Metallized polyester film capacitor(Stacked version,uncoated)

外形图 Outline Drawing



特点

- 金属化聚酯膜, 叠片式结构, 无外封装
- 高脉冲能力

主要用途

- 电子设备的直流脉动和脉冲电路中
- 开关电源转换器, 电子镇流器, 紧凑型节能灯

Features

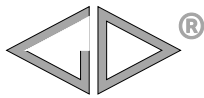
- Metallized polyester film,stacked construction,uncoated
- High pulse strength

Typical Applications

- DC impulse and pulse circuits
- SMPS converters,electronic ballasts,compact fluorescent lamps

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)				
气候类别 Climatic Category	55/125/56				
额定温度 Rated Temperature	85°C				
工作温度 Operating Temperature Range	-55°C~125°C (+85°C to +125°C: decreasing factor 1.25% per °C for U _R)				
额定电压 Rated Voltage	63V, 100V, 250V, 400V, 630V, 1 000V				
电容量范围 Capacitance Range	0.0010μF~10.0μF				
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)				
耐电压 Voltage Proof	1.4U _R (5s)				
损耗角正切 Dissipation Factor	Frequency	C _N ≤ 0.1μF	C _N > 0.1μF		
	1kHz	≤ 1.0%	≤ 1.0%		
	10kHz	≤ 1.5%	-		
	100kHz	≤ 3.0%	-		
绝缘电阻 Insulation Resistance	U _R > 100V	R ≥ 7 500MΩ, C _N ≤ 0.33μF RC _N ≥ 2 500s, C _N > 0.33μF	U _R ≥ 100V, 充电电压 100V		
	U _R ≤ 100V	R ≥ 3 750MΩ, C _N ≤ 0.33μF RC _N ≥ 1 250s, C _N > 0.33μF	U _R < 100V, 充电电压 10V (20°C, 1min)		
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)			
		P=5.0	P=7.5	P=10.0	P=15.0
	63	120	120	-	-
	100	150	150	75	50
	250	250	200	150	100
	400	300	275	175	125
	630	400	320	-	-
1 000	600	400	-	-	
储存条件 (Storage condition)	温度不超过 35°C, 湿度不超过 75%RH, 保存 6 个月。 超过 6 个月, 在 70°C±5°C 烘箱内, 烘 24 个小时再使用。 Temperature: ≤ 35°C, Humidity: ≤ 75%RH, Storage time: ≤ 6 months. If more than 6 months, please dry for 24 h at 70°C±5°C before use.				



C25
CL25 series

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

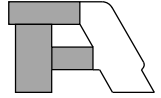
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	5												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C25= CL21		C32= MKP21
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	1J=63V 2A=100V 2E=250V		1J=63V 2A=100V 2E=250V
	2G=400V 2J=630V 3A=1000V		2G=400V 2J=630V 3A=1000V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm 3=7.5mm		2=5.0mm 3=7.5mm
	4=10.0mm 6=15.0mm		4=10.0mm 6=15.0mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm (For pitch=5.0/7.5mm)
		3	F=7.5mm				
		4	F=10.0mm				
		5	F=15.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~22 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				

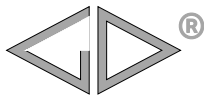


■ 外形尺寸 Dimensions(mm)

63Vdc(40Vac)							63Vdc(40Vac)							63Vdc(40Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C251J102-20****	0.039	6.5	4.7	2.7	5.0	0.5	C251J393-20****	0.22	9.0	4.0	2.4	7.5	0.5	C251J224-30****
0.0012	6.5	4.0	2.2	5.0	0.5	C251J122-20****	0.047	6.5	4.0	2.0	5.0	0.5	C251J473-20****	0.27	9.0	4.6	2.5	7.5	0.5	C251J274-30****
0.0015	6.5	5.0	2.2	5.0	0.5	C251J152-20****	0.056	6.5	4.1	2.2	5.0	0.5	C251J563-20****	0.33	9.0	5.1	2.7	7.5	0.5	C251J334-30****
0.0018	6.5	4.9	2.5	5.0	0.5	C251J182-20****	0.068	6.5	4.1	2.5	5.0	0.5	C251J683-20****	0.39	9.0	5.9	2.7	7.5	0.5	C251J394-30****
0.0022	6.5	4.7	2.2	5.0	0.5	C251J222-20****	0.082	6.5	4.4	2.7	5.0	0.5	C251J823-20****	0.47	9.0	5.2	2.7	7.5	0.5	C251J474-30****
0.0027	6.5	4.7	2.5	5.0	0.5	C251J272-20****	0.10	6.5	3.8	2.0	5.0	0.5	C251J104-20****	0.56	9.0	6.2	2.7	7.5	0.5	C251J564-30****
0.0033	6.5	5.2	2.7	5.0	0.5	C251J332-20****	0.12	6.5	3.9	2.2	5.0	0.5	C251J124-20****	0.68	9.0	5.9	3.2	7.5	0.5	C251J684-30****
0.0039	6.5	3.8	2.0	5.0	0.5	C251J392-20****	0.15	6.5	4.8	2.2	5.0	0.5	C251J154-20****	0.82	9.0	5.9	3.7	7.5	0.5	C251J824-30****
0.0047	6.5	3.9	2.2	5.0	0.5	C251J472-20****	0.18	6.5	4.9	2.4	5.0	0.5	C251J184-20****	1.0	9.0	6.2	4.2	7.5	0.5	C251J105-30****
0.0056	6.5	4.6	2.2	5.0	0.5	C251J562-20****	0.22	6.5	4.2	2.5	5.0	0.5	C251J224-20****	1.2	9.0	6.4	4.8	7.5	0.5	C251J125-30****
0.0068	6.5	4.6	2.5	5.0	0.5	C251J682-20****	0.27	6.5	4.6	2.7	5.0	0.5	C251J274-20****	1.5	9.0	7.1	5.4	7.5	0.5	C251J155-30****
0.0082	6.5	5.0	2.7	5.0	0.5	C251J822-20****	0.33	6.5	5.1	2.9	5.0	0.5	C251J334-20****	1.8	9.0	7.6	5.7	7.5	0.5	C251J185-30****
0.010	6.5	3.7	2.0	5.0	0.5	C251J103-20****	0.39	6.5	5.2	3.2	5.0	0.5	C251J394-20****	2.2	9.0	8.5	6.3	7.5	0.5	C251J225-30****
0.012	6.5	4.1	2.0	5.0	0.5	C251J123-20****	0.47	6.5	5.2	3.7	5.0	0.5	C251J474-20****	2.7	9.0	9.6	6.7	7.5	0.5	C251J275-30****
0.015	6.5	3.6	2.5	5.0	0.5	C251J153-20****	0.56	6.5	7.4	3.2	5.0	0.5	C251J564-20****	3.3	9.0	11.2	7.3	7.5	0.5	C251J335-30****
0.018	6.5	4.3	2.5	5.0	0.5	C251J183-20****	0.68	6.5	7.5	3.7	5.0	0.5	C251J684-20****	3.9	9.0	11.3	8.3	7.5	0.5	C251J395-30****
0.022	6.5	4.2	2.0	5.0	0.5	C251J223-20****	0.82	6.5	7.7	4.2	5.0	0.5	C251J824-20****	4.7	9.0	11.8	9.3	7.5	0.5	C251J475-30****
0.027	6.5	4.4	2.2	5.0	0.5	C251J273-20****	1.0	6.5	8.4	4.7	5.0	0.5	C251J105-20****	5.6	9.0	13.0	10.2	7.5	0.5	C251J565-30****
0.033	6.5	4.4	2.5	5.0	0.5	C251J333-20****								6.8	9.0	13.5	11.7	7.5	0.5	C251J685-30****

100Vdc(63Vac)							100Vdc(63Vac)							100Vdc(63Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252A102-20****	0.18	6.5	4.9	2.4	5.0	0.5	C252A184-20****	0.33	11.5	4.0	2.5	10.0	0.5	C252A334-40****
0.0012	6.5	4.0	2.2	5.0	0.5	C252A122-20****	0.22	6.5	4.7	2.9	5.0	0.5	C252A224-20****	0.39	11.5	4.7	2.5	10.0	0.5	C252A394-40****
0.0015	6.5	5.0	2.2	5.0	0.5	C252A152-20****	0.27	6.5	5.0	3.2	5.0	0.5	C252A274-20****	0.47	11.5	5.0	2.7	10.0	0.5	C252A474-40****
0.0018	6.5	4.9	2.5	5.0	0.5	C252A182-20****	0.33	6.5	5.1	3.7	5.0	0.5	C252A334-20****	0.56	11.5	4.7	3.2	10.0	0.5	C252A564-40****
0.0022	6.5	4.7	2.2	5.0	0.5	C252A222-20****	0.39	6.5	7.2	3.2	5.0	0.5	C252A394-20****	0.68	11.5	5.7	3.2	10.0	0.5	C252A684-40****
0.0027	6.5	4.7	2.5	5.0	0.5	C252A272-20****	0.47	6.5	7.2	3.7	5.0	0.5	C252A474-20****	0.82	11.5	5.7	3.7	10.0	0.5	C252A824-40****
0.0033	6.5	5.2	2.7	5.0	0.5	C252A332-20****	0.56	6.5	7.3	4.2	5.0	0.5	C252A564-20****	1.0	11.5	5.9	4.2	10.0	0.5	C252A105-40****
0.0039	6.5	3.8	2.0	5.0	0.5	C252A392-20****	0.68	6.5	7.9	4.7	5.0	0.5	C252A684-20****	1.2	11.5	7.1	4.2	10.0	0.5	C252A125-40****
0.0047	6.5	3.9	2.2	5.0	0.5	C252A472-20****	0.82	6.5	8.2	5.3	5.0	0.5	C252A824-20****	1.5	11.5	7.7	4.7	10.0	0.5	C252A155-40****
0.0056	6.5	4.6	2.2	5.0	0.5	C252A562-20****	1.0	6.5	8.5	5.7	5.0	0.5	C252A105-20****	1.8	11.5	8.3	5.2	10.0	0.5	C252A185-40****
0.0068	6.5	4.6	2.5	5.0	0.5	C252A682-20****	0.10	9.0	4.1	2.4	7.5	0.5	C252A104-30****	2.2	11.5	9.1	5.7	10.0	0.5	C252A225-40****
0.0082	6.5	5.0	2.7	5.0	0.5	C252A822-20****	0.12	9.0	4.2	2.7	7.5	0.5	C252A124-30****	1.0	16.5	6.1	3.2	15.0	0.6	C252A105-60****
0.010	6.5	3.7	2.0	5.0	0.5	C252A103-20****	0.15	9.0	5.2	2.7	7.5	0.5	C252A154-30****	1.2	16.5	5.9	3.7	15.0	0.6	C252A125-60****
0.012	6.5	4.1	2.0	5.0	0.5	C252A123-20****	0.18	9.0	3.8	2.2	7.5	0.5	C252A184-30****	1.5	16.5	6.6	4.2	15.0	0.6	C252A155-60****
0.015	6.5	3.6	2.5	5.0	0.5	C252A153-20****	0.22	9.0	4.0	2.4	7.5	0.5	C252A224-30****	1.8	16.5	7.5	4.4	15.0	0.6	C252A185-60****
0.018	6.5	4.3	2.5	5.0	0.5	C252A183-20****	0.27	9.0	4.2	2.7	7.5	0.5	C252A274-30****	2.2	16.5	7.5	5.2	15.0	0.6	C252A225-60****
0.022	6.5	4.2	2.0	5.0	0.5	C252A223-20****	0.33	9.0	5.1	2.7	7.5	0.5	C252A334-30****	2.7	16.5	8.5	5.5	15.0	0.6	C252A275-60****
0.027	6.5	4.4	2.2	5.0	0.5	C252A273-20****	0.39	9.0	5.9	2.7	7.5	0.5	C252A394-30****	3.3	16.5	9.3	6.0	15.0	0.6	C252A335-60****
0.033	6.5	4.4	2.5	5.0	0.5	C252A333-20****	0.47	9.0	5.7	3.2	7.5	0.5	C252A474-30****	3.9	16.5	10.5	6.2	15.0	0.6	C252A395-60****
0.039	6.5	4.7	2.7	5.0	0.5	C252A393-20****	0.56	9.0	5.6	3.7	7.5	0.5	C252A564-30****	4.7	16.5	10.8	7.0	15.0	0.6	C252A475-60****
0.047	6.5	4.0	2.0	5.0	0.5	C252A473-20****	0.68	9.0	5.8	4.2	7.5	0.5	C252A684-30****	5.6	16.5	11.9	7.6	15.0	0.6	C252A565-60****
0.056	6.5	4.1	2.2	5.0	0.5	C252A563-20****	0.82	9.0	7.0	4.2	7.5	0.5	C252A824-30****	6.8	16.5	12.4	8.7	15.0	0.6	C252A685-60****
0.068	6.5	4.1	2.5	5.0	0.5	C252A683-20****	1.0	9.0	7.4	4.7	7.5	0.5	C252A105-30****	8.2	16.5	13.1	9.7	15.0	0.6	C252A825-60****
0.082	6.5	4.4	2.7	5.0	0.5	C252A823-20****	1.2	9.0	7.4	5.5	7.5	0.5	C252A125-30****	10.0	16.5	14.5	10.6	15.0	0.6	C252A106-60****
0.10	6.5	3.8	2.0	5.0	0.5	C252A104-20****	1.5	9.0	8.0	6.3	7.5	0.5	C252A155-30****							
0.12	6.5	3.9	2.2	5.0	0.5	C252A124-20****	1.8	9.0	9.7	6.2	7.5	0.5	C252A185-30****							
0.15	6.5	4.8	2.2	5.0	0.5	C252A154-20****	2.2	9.0	10.3	7.2	7.5	0.5	C252A225-30****							

备注 Note: 1. “-”表示容量偏差。 “”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



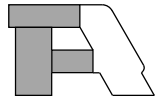
C25
CL25 series

■ 外形尺寸 Dimensions(mm)

250Vdc(160Vac)							250Vdc(160Vac)							250Vdc(160Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252E102-20****	0.082	6.5	4.7	3.5	5.0	0.5	C252E823-20****	0.15	11.5	6.4	3.2	10.0	0.5	C252E154-40****
0.0012	6.5	4.0	2.2	5.0	0.5	C252E122-20****	0.10	6.5	5.3	3.7	5.0	0.5	C252E104-20****	0.18	11.5	5.2	3.2	10.0	0.5	C252E184-40****
0.0015	6.5	5.0	2.2	5.0	0.5	C252E152-20****	0.12	6.5	6.7	3.5	5.0	0.5	C252E124-20****	0.22	11.5	5.3	3.7	10.0	0.5	C252E224-40****
0.0018	6.5	4.9	2.5	5.0	0.5	C252E182-20****	0.15	6.5	6.7	4.2	5.0	0.5	C252E154-20****	0.27	11.5	5.5	4.2	10.0	0.5	C252E274-40****
0.0022	6.5	4.7	2.2	5.0	0.5	C252E222-20****	0.033	9.0	3.5	2.2	7.5	0.5	C252E333-30****	0.33	11.5	6.1	4.5	10.0	0.5	C252E334-40****
0.0027	6.5	4.7	2.5	5.0	0.5	C252E272-20****	0.039	9.0	4.1	2.2	7.5	0.5	C252E393-30****	0.39	11.5	6.5	4.9	10.0	0.5	C252E394-40****
0.0033	6.5	5.2	2.7	5.0	0.5	C252E332-20****	0.047	9.0	4.1	2.5	7.5	0.5	C252E473-30****	0.47	11.5	7.5	5.2	10.0	0.5	C252E474-40****
0.0039	6.5	3.8	2.0	5.0	0.5	C252E392-20****	0.056	9.0	4.4	2.7	7.5	0.5	C252E563-30****	0.22	16.5	4.6	3.2	15.0	0.6	C252E224-60****
0.0047	6.5	3.9	2.2	5.0	0.5	C252E472-20****	0.068	9.0	5.3	2.7	7.5	0.5	C252E683-30****	0.27	16.5	5.6	3.2	15.0	0.6	C252E274-60****
0.0056	6.5	4.6	2.2	5.0	0.5	C252E562-20****	0.082	9.0	4.3	2.7	7.5	0.5	C252E823-30****	0.33	16.5	5.6	3.7	15.0	0.6	C252E334-60****
0.0068	6.5	4.6	2.5	5.0	0.5	C252E682-20****	0.10	9.0	4.6	3.0	7.5	0.5	C252E104-30****	0.39	16.5	6.6	3.7	15.0	0.6	C252E394-60****
0.0082	6.5	5.0	2.7	5.0	0.5	C252E822-20****	0.12	9.0	5.0	3.2	7.5	0.5	C252E124-30****	0.47	16.5	6.7	4.2	15.0	0.6	C252E474-60****
0.010	6.5	3.7	2.0	5.0	0.5	C252E103-20****	0.15	9.0	5.2	3.7	7.5	0.5	C252E154-30****	0.56	16.5	6.8	4.7	15.0	0.6	C252E564-60****
0.012	6.5	4.1	2.0	5.0	0.5	C252E123-20****	0.18	9.0	5.8	3.9	7.5	0.5	C252E184-30****	0.68	16.5	7.3	5.5	15.0	0.6	C252E684-60****
0.015	6.5	3.6	2.5	5.0	0.5	C252E153-20****	0.22	9.0	6.4	4.2	7.5	0.5	C252E224-30****	0.82	16.5	8.8	5.5	15.0	0.6	C252E824-60****
0.018	6.5	4.3	2.5	5.0	0.5	C252E183-20****	0.27	9.0	6.8	4.7	7.5	0.5	C252E274-30****	1.0	16.5	9.6	6.0	15.0	0.6	C252E105-60****
0.022	6.5	4.2	2.0	5.0	0.5	C252E223-20****	0.33	9.0	6.9	5.5	7.5	0.5	C252E334-30****	1.2	16.5	10.0	6.7	15.0	0.6	C252E125-60****
0.027	6.5	4.4	2.2	5.0	0.5	C252E273-20****	0.047	11.5	3.8	2.2	10.0	0.5	C252E473-40****	1.5	16.5	11.8	7.0	15.0	0.6	C252E155-60****
0.033	6.5	4.4	2.5	5.0	0.5	C252E333-20****	0.056	11.5	4.1	2.2	10.0	0.5	C252E563-40****	1.8	16.5	13.1	7.5	15.0	0.6	C252E185-60****
0.039	6.5	4.7	2.7	5.0	0.5	C252E393-20****	0.068	11.5	4.1	2.5	10.0	0.5	C252E683-40****	2.2	16.5	12.8	9.0	15.0	0.6	C252E225-60****
0.047	6.5	3.8	2.7	5.0	0.5	C252E473-20****	0.082	11.5	4.4	2.7	10.0	0.5	C252E823-40****	2.7	16.5	13.9	10.2	15.0	0.6	C252E275-60****
0.056	6.5	4.1	2.9	5.0	0.5	C252E563-20****	0.10	11.5	5.4	2.7	10.0	0.5	C252E104-40****	3.3	16.5	15.3	11.2	15.0	0.6	C252E335-60****

C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252G102-20****	0.0022	9.0	3.7	2.2	7.5	0.5	C252G222-30****	0.033	11.5	4.3	2.2	10.0	0.5	C252G333-40****
0.0012	6.5	4.0	2.2	5.0	0.5	C252G122-20****	0.0027	9.0	4.6	2.2	7.5	0.5	C252G272-30****	0.039	11.5	4.2	2.5	10.0	0.5	C252G393-40****
0.0015	6.5	5.0	2.2	5.0	0.5	C252G152-20****	0.0033	9.0	3.8	2.2	7.5	0.5	C252G332-30****	0.047	11.5	4.5	2.7	10.0	0.5	C252G473-40****
0.0018	6.5	4.9	2.5	5.0	0.5	C252G182-20****	0.0039	9.0	3.9	2.2	7.5	0.5	C252G392-30****	0.056	11.5	5.4	2.7	10.0	0.5	C252G563-40****
0.0022	6.5	4.7	2.2	5.0	0.5	C252G222-20****	0.0047	9.0	4.7	2.2	7.5	0.5	C252G472-30****	0.068	11.5	5.2	3.2	10.0	0.5	C252G683-40****
0.0027	6.5	4.7	2.5	5.0	0.5	C252G272-20****	0.0056	9.0	3.7	2.2	7.5	0.5	C252G562-30****	0.082	11.5	6.2	3.2	10.0	0.5	C252G823-40****
0.0033	6.5	5.2	2.7	5.0	0.5	C252G332-20****	0.0068	9.0	4.5	2.2	7.5	0.5	C252G682-30****	0.10	11.5	6.2	3.7	10.0	0.5	C252G104-40****
0.0039	6.5	3.8	2.0	5.0	0.5	C252G392-20****	0.0082	9.0	4.5	2.5	7.5	0.5	C252G822-30****	0.12	11.5	6.4	4.2	10.0	0.5	C252G124-40****
0.0047	6.5	3.9	2.2	5.0	0.5	C252G472-20****	0.010	9.0	4.0	2.2	7.5	0.5	C252G103-30****	0.15	11.5	6.9	4.7	10.0	0.5	C252G154-40****
0.0056	6.5	4.6	2.2	5.0	0.5	C252G562-20****	0.012	9.0	4.4	2.2	7.5	0.5	C252G123-30****	0.18	11.5	7.5	5.2	10.0	0.5	C252G184-40****
0.0068	6.5	4.6	2.5	5.0	0.5	C252G682-20****	0.015	9.0	4.5	2.5	7.5	0.5	C252G153-30****	0.22	11.5	8.2	5.7	10.0	0.5	C252G224-40****
0.0082	6.5	5.0	2.7	5.0	0.5	C252G822-20****	0.018	9.0	3.7	2.2	7.5	0.5	C252G183-30****	0.047	16.5	4.1	2.4	15.0	0.6	C252G473-60****
0.010	6.5	3.7	2.0	5.0	0.5	C252G103-20****	0.022	9.0	4.2	2.2	7.5	0.5	C252G223-30****	0.056	16.5	4.0	2.7	15.0	0.6	C252G563-60****
0.012	6.5	4.1	2.0	5.0	0.5	C252G123-20****	0.027	9.0	4.2	2.5	7.5	0.5	C252G273-30****	0.068	16.5	4.3	2.9	15.0	0.6	C252G683-60****
0.015	6.5	4.3	2.2	5.0	0.5	C252G153-20****	0.033	9.0	4.6	2.7	7.5	0.5	C252G333-30****	0.082	16.5	4.5	3.2	15.0	0.6	C252G823-60****
0.018	6.5	4.3	2.5	5.0	0.5	C252G183-20****	0.039	9.0	5.4	2.7	7.5	0.5	C252G393-30****	0.10	16.5	5.5	3.2	15.0	0.6	C252G104-60****
0.022	6.5	4.7	2.7	5.0	0.5	C252G223-20****	0.047	9.0	6.1	2.8	7.5	0.5	C252G473-30****	0.12	16.5	5.3	3.7	15.0	0.6	C252G124-60****
0.027	6.5	5.2	2.9	5.0	0.5	C252G273-20****	0.056	9.0	6.1	3.2	7.5	0.5	C252G563-30****	0.15	16.5	6.2	3.9	15.0	0.6	C252G154-60****
0.033	6.5	5.5	3.2	5.0	0.5	C252G333-20****	0.068	9.0	6.1	3.7	7.5	0.5	C252G683-30****	0.18	16.5	6.7	4.2	15.0	0.6	C252G184-60****
0.039	6.5	5.4	3.7	5.0	0.5	C252G393-20****	0.082	9.0	6.3	4.2	7.5	0.5	C252G823-30****	0.22	16.5	7.1	4.7	15.0	0.6	C252G224-60****
0.047	6.5	6.9	3.5	5.0	0.5	C252G473-20****	0.10	9.0	7.2	4.4	7.5	0.5	C252G104-30****	0.27	16.5	7.6	5.5	15.0	0.6	C252G274-60****
0.056	6.5	7.7	3.7	5.0	0.5	C252G563-20****	0.12	9.0	7.1	5.2	7.5	0.5	C252G124-30****	0.33	16.5	8.5	5.9	15.0	0.6	C252G334-60****
0.068	6.5	7.9	4.2	5.0	0.5	C252G683-20****	0.15	9.0	7.9	5.7	7.5	0.5	C252G154-30****	0.39	16.5	9.4	6.2	15.0	0.6	C252G394-60****
0.082	6.5	8.6	4.7	5.0	0.5	C252G823-20****	0.010	11.5	3.9	2.2	10.0	0.5	C252G103-40****	0.47	16.5	9.8	7.0	15.0	0.6	C252G474-60****
0.10	6.5	8.3	5.7	5.0	0.5	C252G104-20****	0.012	11.5	4.4	2.2	10.0	0.5	C252G123-40****	0.56	16.5	10.7	7.5	15.0	0.6	C252G564-60****
0.0010	9.0	3.7	2.0	7.5	0.5	C252G102-30****	0.015	11.5	4.5	2.5	10.0	0.5	C252G153-40****	0.68	16.5	11.2	8.5	15.0	0.6	C252G684-60****
0.0012	9.0	3.7	2.0	7.5	0.5	C252G122-30****	0.018	11.5	4.8	2.7	10.0	0.5	C252G183-40****	0.82	16.5	12.6	9.0	15.0	0.6	C252G824-60****
0.0015	9.0	4.0	2.2	7.5	0.5	C252G152-30****	0.022	11.5	4.6	2.5	10.0	0.5	C252G223-40****	1.0	16.5	13.6	10.2	15.0	0.6	C252G105-60****
0.0018	9.0	4.7	2.2	7.5	0.5	C252G182-30****	0.027	11.5	5.6	2.5	10.0	0.5	C252G273-40****							

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1)。



■ 外形尺寸 Dimensions(mm)

630Vdc(400Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252J102-20****
0.0012	6.5	4.0	2.2	5.0	0.5	C252J122-20****
0.0015	6.5	5.0	2.2	5.0	0.5	C252J152-20****
0.0018	6.5	4.9	2.5	5.0	0.5	C252J182-20****
0.0022	6.5	4.7	2.2	5.0	0.5	C252J222-20****
0.0027	6.5	4.7	2.5	5.0	0.5	C252J272-20****
0.0033	6.5	5.2	2.7	5.0	0.5	C252J332-20****
0.0039	6.5	5.5	2.9	5.0	0.5	C252J392-20****
0.0047	6.5	4.9	2.5	5.0	0.5	C252J472-20****
0.0056	6.5	5.2	2.7	5.0	0.5	C252J562-20****
0.0068	6.5	5.0	3.2	5.0	0.5	C252J682-20****
0.0082	6.5	5.4	3.5	5.0	0.5	C252J822-20****
0.010	6.5	5.7	3.9	5.0	0.5	C252J103-20****
0.012	6.5	7.3	3.7	5.0	0.5	C252J123-20****

630Vdc(400Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	9.0	3.7	2.0	7.5	0.5	C252J102-30****
0.0012	9.0	3.7	2.0	7.5	0.5	C252J122-30****
0.0015	9.0	4.0	2.2	7.5	0.5	C252J152-30****
0.0018	9.0	4.7	2.2	7.5	0.5	C252J182-30****
0.0022	9.0	3.7	2.2	7.5	0.5	C252J222-30****
0.0027	9.0	4.0	2.4	7.5	0.5	C252J272-30****
0.0033	9.0	3.8	2.2	7.5	0.5	C252J332-30****
0.0039	9.0	3.9	2.2	7.5	0.5	C252J392-30****
0.0047	9.0	4.1	2.4	7.5	0.5	C252J472-30****
0.0056	9.0	4.6	2.5	7.5	0.5	C252J562-30****
0.0068	9.0	5.0	2.7	7.5	0.5	C252J682-30****
0.0082	9.0	6.1	2.7	7.5	0.5	C252J822-30****
0.010	9.0	6.2	3.2	7.5	0.5	C252J103-30****
0.012	9.0	5.8	3.7	7.5	0.5	C252J123-30****
0.015	9.0	6.2	4.2	7.5	0.5	C252J153-30****
0.018	9.0	7.4	4.2	7.5	0.5	C252J183-30****
0.022	9.0	7.9	4.7	7.5	0.5	C252J223-30****
0.027	9.0	7.8	5.7	7.5	0.5	C252J273-30****
0.033	9.0	9.5	5.7	7.5	0.5	C252J333-30****
0.039	9.0	10.2	6.3	7.5	0.5	C252J393-30****
0.047	9.0	11.2	6.8	7.5	0.5	C252J473-30****

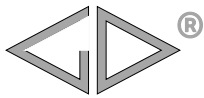
630Vdc(400Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.10	16.5	9.2	5.0	15.0	0.6	C252J104-60****
0.12	16.5	9.8	5.8	15.0	0.6	C252J124-60****
0.15	16.5	11.2	6.2	15.0	0.6	C252J154-60****
0.18	16.5	11.2	7.2	15.0	0.6	C252J184-60****
0.22	16.5	12.5	7.7	15.0	0.6	C252J224-60****
0.27	16.5	14.3	8.2	15.0	0.6	C252J274-60****
0.33	16.5	14.4	9.9	15.0	0.6	C252J334-60****
0.39	16.5	15.2	10.9	15.0	0.6	C252J394-60****
0.47	16.5	17.5	11.3	15.0	0.6	C252J474-60****

1 000Vdc(600Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C253A102-20****
0.0012	6.5	4.0	2.2	5.0	0.5	C253A122-20****
0.0015	6.5	5.0	2.2	5.0	0.5	C253A152-20****
0.0018	6.5	4.9	2.5	5.0	0.5	C253A182-20****
0.0022	6.5	4.7	2.2	5.0	0.5	C253A222-20****
0.0027	6.5	4.7	2.5	5.0	0.5	C253A272-20****
0.0033	6.5	5.2	2.7	5.0	0.5	C253A332-20****
0.0039	6.5	5.5	2.9	5.0	0.5	C253A392-20****
0.0047	6.5	5.8	3.2	5.0	0.5	C253A472-20****
0.0056	6.5	5.8	3.7	5.0	0.5	C253A562-20****
0.0068	6.5	8.4	3.2	5.0	0.5	C253A682-20****
0.0082	6.5	8.4	3.7	5.0	0.5	C253A822-20****
0.010	6.5	8.8	4.2	5.0	0.5	C253A103-20****

1 000Vdc(600Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	9.0	3.7	2.0	7.5	0.5	C253A102-30****
0.0012	9.0	3.7	2.0	7.5	0.5	C253A122-30****
0.0015	9.0	4.0	2.2	7.5	0.5	C253A152-30****
0.0018	9.0	4.7	2.2	7.5	0.5	C253A182-30****
0.0022	9.0	3.7	2.2	7.5	0.5	C253A222-30****
0.0027	9.0	4.6	2.2	7.5	0.5	C253A272-30****
0.0033	9.0	4.6	2.5	7.5	0.5	C253A332-30****
0.0039	9.0	4.9	2.7	7.5	0.5	C253A392-30****
0.0047	9.0	5.8	2.7	7.5	0.5	C253A472-30****
0.0056	9.0	5.5	3.2	7.5	0.5	C253A562-30****
0.0068	9.0	6.7	3.2	7.5	0.5	C253A682-30****
0.0082	9.0	6.7	3.7	7.5	0.5	C253A822-30****
0.010	9.0	7.0	4.2	7.5	0.5	C253A103-30****

1 000Vdc(600Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.012	9.0	7.3	4.7	7.5	0.5	C253A123-30****
0.015	9.0	8.1	5.2	7.5	0.5	C253A153-30****
0.018	9.0	9.7	5.2	7.5	0.5	C253A183-30****
0.022	9.0	10.6	5.7	7.5	0.5	C253A223-30****
0.027	9.0	11.8	6.3	7.5	0.5	C253A273-30****
0.033	9.0	13.2	6.8	7.5	0.5	C253A333-30****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1)。



C28

金属化聚酯膜叠片式电容器(浸渍型) (P=5.0/7.5) Metallized polyester film capacitor(dipped type and stacked version)

外形图 Outline Drawing

	Forming Lead Shapes	
	P=5.0	P=7.5
	F=5.0	F=5.0/7.5
	F±0.5mm; A≤5.0mm; B=4.5±0.5mm	

特点

- 金属化聚酯膜，叠片式结构
- 阻燃性环氧粉末封装(UL94 V-0)
- 抗脉冲能力强

主要用途

- 旁路，隔直，耦合，退耦
- 脉冲，逻辑，定时，紧凑型节能灯
- LCD 监视器整流，汽车直流马达抑制干扰

Features

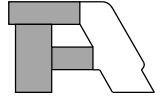
- Metallized polyester film, stacked construction
- Flame retardation epoxy resin powder coated (UL94 V-0)
- High dv/dt ability

Typical Applications

- By-passing, blocking, coupling, decoupling
- Pulse logic, timing, compact fluorescent lamps
- Inverter for LCD monitors, automotive DC motor suppression

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)		
气候类别 Climatic Category	55/105/56		
额定温度 Rated Temperature	85°C		
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U _R)		
额定电压 Rated Voltage	50V, 63V, 100V, 250V		
电容量范围 Capacitance Range	0.01μF~3.3μF		
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)		
耐电压 Voltage Proof	1.4U _R (5s)		
损耗角正切 Dissipation Factor	Frequency	C _N ≤ 0.1μF	C _N > 0.1μF
	1kHz	≤ 1.0%	≤ 1.0%
	10kHz	≤ 1.5%	≤ 1.5%
	100kHz	≤ 3.0%	-
绝缘电阻 Insulation Resistance	U _R > 100V	R ≥ 30 000MΩ, C _N ≤ 0.33μF RC _N ≥ 10 000s, C _N > 0.33μF	U _R ≥ 100V, 充电电压 100V
	U _R ≤ 100V	R ≥ 15 000MΩ, C _N ≤ 0.33μF RC _N ≥ 5 000s, 0.33μF < C _N ≤ 1μF RC _N ≥ 1 000s, C _N > 1μF	U _R < 100V, 充电电压 10V (20°C, 1min)
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)	
		P=5.0	P=7.5
	50	250	150
	63	250	150
	100	300	-
250	100	-	



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

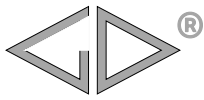
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	8												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C28		C28
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	1H=50V 1J=63V		1H=50V 1J=63V
	2A=100V 2E=250V		2A=100V 2E=250V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm 3=7.5mm		2=5.0mm 3=7.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2 3	F=5.0mm F=7.5mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch=5.0/7.5mm) (Detail parameter refer to page 17)
F	引线成型 lead kinked	2 3	F=5.0mm F=7.5mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation			0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)



C28

■ 外形尺寸 Dimensions(mm)

50Vdc (30Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.010	7.3	5.5	3.2	5.0	0.5	C281H103-20****
0.012	7.3	5.5	3.2	5.0	0.5	C281H123-20****
0.015	7.3	5.5	3.2	5.0	0.5	C281H153-20****
0.018	7.3	5.5	3.2	5.0	0.5	C281H183-20****
0.022	7.3	5.5	3.2	5.0	0.5	C281H223-20****
0.027	7.3	5.5	3.2	5.0	0.5	C281H273-20****
0.033	7.3	5.5	3.2	5.0	0.5	C281H333-20****
0.039	7.3	5.5	3.2	5.0	0.5	C281H393-20****
0.047	7.3	5.5	3.2	5.0	0.5	C281H473-20****
0.056	7.3	5.5	3.2	5.0	0.5	C281H563-20****
0.068	7.3	5.5	3.2	5.0	0.5	C281H683-20****
0.082	7.3	5.5	3.2	5.0	0.5	C281H823-20****
0.10	7.3	5.5	3.2	5.0	0.5	C281H104-20****
0.12	7.3	5.5	3.2	5.0	0.5	C281H124-20****
0.15	7.3	5.5	3.5	5.0	0.5	C281H154-20****
0.18	7.3	5.5	4.0	5.0	0.5	C281H184-20****
0.22	7.3	5.5	4.3	5.0	0.5	C281H224-20****
0.27	7.3	7.0	4.3	5.0	0.5	C281H274-20****
0.33	7.3	7.0	4.8	5.0	0.5	C281H334-20****
0.39	7.3	7.0	5.0	5.0	0.5	C281H394-20****
0.47	7.3	8.5	5.5	5.0	0.5	C281H474-20****
0.56	7.3	8.5	5.8	5.0	0.5	C281H564-20****
0.68	7.3	8.5	6.5	5.0	0.5	C281H684-20****
0.82	7.3	9.5	6.5	5.0	0.5	C281H824-20****
1.0	7.3	11.0	7.5	5.0	0.5	C281H105-20****
1.2	10.0	9.5	5.5	7.5	0.5	C281H125-30****
1.5	10.0	9.5	6.5	7.5	0.5	C281H155-30****
1.8	10.0	11.0	6.5	7.5	0.5	C281H185-30****
2.2	10.0	11.0	7.0	7.5	0.5	C281H225-30****
2.7	10.0	13.5	7.0	7.5	0.5	C281H275-30****
3.3	10.0	13.5	8.0	7.5	0.5	C281H335-30****

63Vdc (40Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.010	7.3	5.5	3.2	5.0	0.5	C281J103-20****
0.012	7.3	5.5	3.2	5.0	0.5	C281J123-20****
0.015	7.3	5.5	3.2	5.0	0.5	C281J153-20****
0.018	7.3	5.5	3.2	5.0	0.5	C281J183-20****
0.022	7.3	5.5	3.2	5.0	0.5	C281J223-20****
0.027	7.3	5.5	3.2	5.0	0.5	C281J273-20****
0.033	7.3	5.5	3.2	5.0	0.5	C281J333-20****
0.039	7.3	5.5	3.2	5.0	0.5	C281J393-20****
0.047	7.3	5.5	3.2	5.0	0.5	C281J473-20****
0.056	7.3	5.5	3.2	5.0	0.5	C281J563-20****
0.068	7.3	5.5	3.2	5.0	0.5	C281J683-20****
0.082	7.3	5.5	3.2	5.0	0.5	C281J823-20****
0.10	7.3	5.5	3.2	5.0	0.5	C281J104-20****
0.12	7.3	5.5	3.2	5.0	0.5	C281J124-20****
0.15	7.3	5.5	3.5	5.0	0.5	C281J154-20****
0.18	7.3	5.5	4.0	5.0	0.5	C281J184-20****
0.22	7.3	5.5	4.3	5.0	0.5	C281J224-20****
0.27	7.3	7.0	4.3	5.0	0.5	C281J274-20****
0.33	7.3	7.0	4.8	5.0	0.5	C281J334-20****
0.39	7.3	7.0	5.0	5.0	0.5	C281J394-20****
0.47	7.3	8.5	5.5	5.0	0.5	C281J474-20****
0.56	7.3	8.5	5.8	5.0	0.5	C281J564-20****
0.68	7.3	8.5	6.5	5.0	0.5	C281J684-20****
0.82	7.3	9.5	6.5	5.0	0.5	C281J824-20****
1.0	7.3	11.0	7.5	5.0	0.5	C281J105-20****
1.2	10.0	9.5	5.5	7.5	0.5	C281J125-30****
1.5	10.0	9.5	6.5	7.5	0.5	C281J155-30****
1.8	10.0	11.0	6.5	7.5	0.5	C281J185-30****
2.2	10.0	11.0	7.0	7.5	0.5	C281J225-30****
2.7	10.0	13.5	7.0	7.5	0.5	C281J275-30****
3.3	10.0	13.5	8.0	7.5	0.5	C281J335-30****

备注 Note: 1. “-”表示容量偏差。 “ ”=capacitance tolerance code. M=±20%, K=±10%, J=±5%.
 2. “****”表示引线加工和包装代码(见表1)。 “****”=lead form and packing code(refer to table 1).



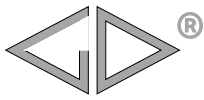
■ 外形尺寸 Dimensions(mm)

100Vdc (63Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.010	7.3	5.5	3.2	5.0	0.5	C282A103-20****
0.012	7.3	5.5	3.2	5.0	0.5	C282A 123-20****
0.015	7.3	5.5	3.2	5.0	0.5	C282A 153-20****
0.018	7.3	5.5	3.2	5.0	0.5	C282A 183-20****
0.022	7.3	5.5	3.2	5.0	0.5	C282A 223-20****
0.027	7.3	5.5	3.2	5.0	0.5	C282A 273-20****
0.033	7.3	5.5	3.2	5.0	0.5	C282A 333-20****
0.039	7.3	5.5	3.2	5.0	0.5	C282A 393-20****
0.047	7.3	5.5	3.2	5.0	0.5	C282A 473-20****
0.056	7.3	5.5	3.2	5.0	0.5	C282A 563-20****
0.068	7.3	5.5	3.2	5.0	0.5	C282A 683-20****
0.082	7.3	5.5	3.2	5.0	0.5	C282A 823-20****
0.10	7.3	5.5	3.2	5.0	0.5	C282A 104-20****
0.12	7.3	5.5	3.2	5.0	0.5	C282A 124-20****
0.15	7.3	5.5	3.5	5.0	0.5	C282A 154-20****
0.18	7.3	5.5	4.0	5.0	0.5	C282A 184-20****
0.22	7.3	5.5	4.3	5.0	0.5	C282A 224-20****
0.27	7.3	7.0	4.3	5.0	0.5	C282A 274-20****
0.33	7.3	7.0	4.8	5.0	0.5	C282A 334-20****
0.39	7.3	7.0	5.0	5.0	0.5	C282A 394-20****
0.47	7.3	8.5	5.5	5.0	0.5	C282A 474-20****
0.56	7.3	8.5	5.8	5.0	0.5	C282A 564-20****
0.68	7.3	8.5	6.5	5.0	0.5	C282A 684-20****
0.82	7.3	9.5	6.5	5.0	0.5	C282A 824-20****
1.0	7.3	11.0	7.5	5.0	0.5	C282A 105-20****

250Vdc (140Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.010	7.3	5.5	3.2	5.0	0.5	C282E103-20****
0.012	7.3	6.0	3.2	5.0	0.5	C282E 123-20****
0.015	7.3	6.0	3.2	5.0	0.5	C282E 153-20****
0.018	7.3	6.0	3.2	5.0	0.5	C282E 183-20****
0.022	7.3	6.0	3.5	5.0	0.5	C282E 223-20****
0.027	7.3	6.0	3.5	5.0	0.5	C282E 273-20****
0.033	7.3	6.5	3.5	5.0	0.5	C282E 333-20****
0.039	7.3	6.5	4.8	5.0	0.5	C282E 393-20****
0.047	7.3	6.8	3.3	5.0	0.5	C282E 473-20****
0.056	7.3	7.0	4.2	5.0	0.5	C282E 563-20****
0.068	7.3	7.5	4.2	5.0	0.5	C282E 683-20****
0.082	7.3	7.5	4.5	5.0	0.5	C282E 823-20****
0.10	7.3	8.3	4.3	5.0	0.5	C282E 104-20****
0.12	7.3	8.5	5.0	5.0	0.5	C282E 124-20****
0.15	7.3	10.0	5.0	5.0	0.5	C282E 154-20****
0.18	7.3	11.0	5.2	5.0	0.5	C282E 184-20****
0.22	7.3	13.0	5.2	5.0	0.5	C282E 224-20****

备注 Note: 1. “-” 表示容量偏差。 “.” =capacitance tolerance code. M=±20%, K=±10%, J=±5%.

2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code(refer to table 1).



C21
CL21 series

金属化聚酯膜电容器(浸渍型) Metallized polyester film capacitor(dipped)

外形图 Outline Drawing

	Forming Lead Shapes			
	I	II	III	IV
	$P \geq F$		$P < F$	
	$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$				

特点

- 金属化聚酯膜, 无感卷绕结构
- 容量范围宽, 体积小, 重量轻
- 自愈性好, 寿命长
- 阻燃性环氧粉末包封

主要用途

- 适用于直流和 VHF 级信号的隔直流、旁路和耦合
- 广泛用于滤波、低脉冲电路

Features

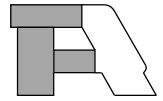
- Metallized polyester film, non-inductive wound construction
- Wide capacitance range, small size, and light weight
- Long life due to self-healing effect
- Flame retardation epoxy resin coated

Typical Applications

- Suitable for blocking, by-pass and coupling of DC and signals to VHF range
- Widely used in filter and low pulse circuits

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)					
气候类别 Climatic Category	55/105/21					
额定温度 Rated Temperature	85°C					
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)					
额定电压 Rated Voltage	50/63V, 100V, 250V, 400V, 630V, 1 000V, 1 250V					
电容量范围 Capacitance Range	0.010μF~10.0μF					
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K)					
耐电压 Voltage Proof	1.6 U_R (5s)					
损耗角正切 Dissipation Factor	≤1.0% (20°C, 1kHz)					
绝缘电阻 Insulation Resistance	$U_R > 100V$	$R \geq 15\ 000M\Omega$, $C_N \leq 0.33\mu F$ $RC_N \geq 5\ 000s$, $C_N > 0.33\mu F$ (20°C, 100V, 1min)				
	$U_R \leq 100V$	$R \geq 3\ 750M\Omega$, $C_N \leq 0.33\mu F$ $RC_N \geq 1\ 250s$, $C_N > 0.33\mu F$ (20°C, 10V, 1min)				
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	$U_R(V)$	dV/dt(V/μs) for Pattern III				
			P=7.5	P=10.0	P=15.0	P=22.5
	50/63	7.5	6	3	2	—
	100	15	9	5	3	—
	250	30	20	12	8	5
	400	40	30	20	10	7
	630	—	40	25	12	10
1 000	70	60	30	15	12	
1 250	80	70	40	18	14	



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

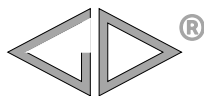
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	1												

第 1~3 位	型号代码 C21= CL21	Digit 1 to 3	Series code C21= CL21
第 4~5 位	直流额定电压 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V	Digit 4 to 5	D.C. rated voltage 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V
第 6~8 位	标称容量 举例: 103=10×10³pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差 J=±5%, K=±10%, M=±20%	Digit 9	Capacitance tolerance J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P 3=7.5mm 4=10.0mm 5=12.5mm 6=15.0mm 8=20.0mm 9=22.5mm A=25.0mm C=30.0mm	Digit 10	Pitch 3=7.5mm 4=10.0mm 5=12.5mm 6=15.0mm 8=20.0mm 9=22.5mm A=25.0mm C=30.0mm
第 11 位	内部特征码 A=III型 B=Small size	Digit 11	Internal use A= Pattern III B=Small size
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm (For pitch=5.0/7.5mm)
		3	F=7.5mm			E	P3=25.4mm; H=20.0mm(For pitch=10.0/15.0mm)
		4	F=10.0mm				(Detail parameter refer to page 17)
		6	F=15.0mm				
F	引线成型 lead kinked	2	F=5.0mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
		3	F=7.5mm				
		4	F=10.0mm				
		6	F=15.0mm				
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)

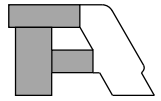


■ 外形尺寸 Dimensions(mm)

Small size

50Vdc (30Vac) /63Vdc (40Vac) #							100Vdc (63Vac)							250Vdc(160Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.39	9.80	7.0	4.0	7.5	0.6	C211J394-3B****	0.27	9.80	7.0	4.0	7.5	0.6	C212A274-3B****	0.022	9.80	7.0	4.0	7.5	0.5	C212E223-3B****
0.47	9.80	7.7	4.1	7.5	0.6	C211J474-3B****	0.33	9.80	7.7	4.1	7.5	0.6	C212A334-3B****	0.027	9.80	7.2	4.2	7.5	0.5	C212E273-3B****
0.56	9.80	8.0	4.4	7.5	0.6	C211J564-3B****	0.39	9.80	8.0	4.3	7.5	0.6	C212A394-3B****	0.033	9.80	6.7	3.7	7.5	0.6	C212E333-3B****
0.68	9.80	8.3	4.7	7.5	0.6	C211J684-3B****	0.47	9.80	8.3	4.6	7.5	0.6	C212A474-3B****	0.039	9.80	6.9	3.9	7.5	0.6	C212E393-3B****
0.82	9.80	8.7	5.1	7.5	0.6	C211J824-3B****	0.56	9.80	8.6	5.0	7.5	0.6	C212A564-3B****	0.047	9.80	7.1	4.1	7.5	0.6	C212E473-3B****
1.0	12.3	8.4	4.8	10.0	0.6	C211J105-4B****	0.68	9.80	9.0	5.4	7.5	0.6	C212A684-3B****	0.056	9.80	7.4	4.4	7.5	0.6	C212E563-3B****
1.2	12.3	8.8	5.1	10.0	0.6	C211J125-4B****	0.82	12.3	8.7	5.0	10.0	0.6	C212A824-4B****	0.068	9.80	6.7	3.7	7.5	0.6	C212E683-3B****
1.5	12.3	9.3	5.6	10.0	0.6	C211J155-4B****	1.0	12.3	9.1	5.5	10.0	0.6	C212A105-4B****	0.082	9.80	7.0	4.0	7.5	0.6	C212E823-3B****
1.8	12.3	9.7	6.1	10.0	0.6	C211J185-4B****	1.2	12.3	9.5	5.9	10.0	0.6	C212A125-4B****	0.10	9.80	7.7	4.0	7.5	0.6	C212E104-3B****
2.2	17.5	9.6	5.9	15.0	0.6	C211J225-6B****	1.5	12.3	10.1	6.5	10.0	0.6	C212A155-4B****	0.12	9.80	7.9	4.3	7.5	0.6	C212E124-3B****
2.7	17.5	10.0	6.4	15.0	0.6	C211J275-6B****	1.8	17.5	11.4	5.7	15.0	0.6	C212A185-6B****	0.15	9.80	8.3	4.7	7.5	0.6	C212E154-3B****
3.3	17.5	10.6	6.9	15.0	0.6	C211J335-6B****	2.2	17.5	11.9	6.1	15.0	0.6	C212A225-6B****	0.18	9.80	8.6	5.0	7.5	0.6	C212E184-3B****
3.9	17.5	11.6	7.5	15.0	0.8	C211J395-6B****	2.7	17.5	12.4	6.7	15.0	0.6	C212A275-6B****	0.22	12.3	8.4	4.7	10.0	0.6	C212E224-4B****
4.7	25.2	11.9	6.2	22.5	0.8	C211J475-9B****	3.3	17.5	14.0	6.8	15.0	0.6	C212A335-6B****	0.27	12.3	8.8	5.1	10.0	0.6	C212E274-4B****
5.6	25.2	12.4	6.7	22.5	0.8	C211J565-9B****	3.9	17.5	14.6	7.3	15.0	0.8	C212A395-6B****	0.33	12.3	9.7	5.3	10.0	0.6	C212E334-4B****
6.8	25.2	13.0	7.3	22.5	0.8	C211J685-9B****	4.7	25.2	13.9	6.6	22.5	0.8	C212A475-9B****	0.39	17.5	9.6	5.1	15.0	0.6	C212E394-6B****
8.2	25.2	13.6	8.4	22.5	0.8	C211J825-9B****	5.6	25.2	14.4	7.2	22.5	0.8	C212A565-9B****	0.47	17.5	9.9	5.5	15.0	0.6	C212E474-6B****
10.0	25.2	14.4	9.2	22.5	0.8	C211J106-9B****	6.8	25.2	15.1	8.3	22.5	0.8	C212A685-9B****	0.56	17.5	10.8	5.6	15.0	0.6	C212E564-6B****
							8.2	25.2	16.9	8.5	22.5	0.8	C212A825-9B****	0.68	17.5	11.3	6.1	15.0	0.6	C212E684-6B****
							10.0	25.2	17.7	9.4	22.5	0.8	C212A106-9B****	0.82	17.5	12.3	6.6	15.0	0.6	C212E824-6B****
														1.0	17.5	12.9	7.2	15.0	0.6	C212E105-6B****
														1.2	17.5	13.5	7.8	15.0	0.8	C212E125-6B****
														1.5	17.5	15.3	8.5	15.0	0.8	C212E155-6B****
														1.8	17.5	16.0	9.2	15.0	0.8	C212E185-6B****
														2.2	25.2	15.2	8.4	22.5	0.8	C212E225-9B****
														2.7	25.2	15.5	8.7	22.5	0.8	C212E275-9B****
														3.3	25.2	16.9	10.1	22.5	0.8	C212E335-9B****
														3.9	25.2	18.6	10.3	22.5	0.8	C212E395-9B****
														4.7	25.2	19.6	11.3	22.5	0.8	C212E475-9B****
														5.6	30.2	19.3	10.9	27.5	0.8	C212E565-BB****
														6.8	30.2	20.4	12.1	27.5	0.8	C212E685-BB****
														8.2	30.2	21.6	13.2	27.5	0.8	C212E825-BB****
														10.0	30.2	23.0	14.6	27.5	0.8	C212E106-BB****

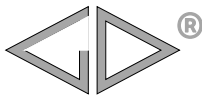
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1)。
 3. “#”当额定电压为50Vdc时,第4~5位是1H。“#” when the rated voltage is 50Vdc, the digit 4~5 is 1H.



■ 外形尺寸 Dimensions(mm)
Small size

400Vdc(200Vac)							630Vdc(220Vac)@							630Vdc(220Vac)@							
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	
0.022	9.80	7.0	4.0	7.5	0.6	C212G223-3B****	0.010	9.80	6.8	3.8	7.5	0.6	C212J103-3B****	0.47	25.2	15.6	8.8	22.5	0.8	C212J474-9B****	
0.027	9.80	7.2	4.2	7.5	0.5	C212G273-3B****	0.012	9.80	7.4	3.8	7.5	0.6	C212J123-3B****	0.56	25.2	16.3	9.5	22.5	0.8	C212J564-9B****	
0.033	9.80	7.3	4.3	7.5	0.5	C212G333-3B****	0.015	9.80	7.7	4.1	7.5	0.6	C212J153-3B****	0.68	25.2	17.2	10.4	22.5	0.8	C212J684-9B****	
0.039	9.80	7.5	4.4	7.5	0.6	C212G393-3B****	0.018	9.80	7.9	4.3	7.5	0.6	C212J183-3B****	0.82	25.2	18.1	11.3	22.5	0.8	C212J824-9B****	
0.047	9.80	8.2	4.5	7.5	0.6	C212G473-3B****	0.022	9.80	8.2	4.6	7.5	0.6	C212J223-3B****	1.0	30.2	18.9	10.5	27.5	0.8	C212J105-BB****	
0.056	9.80	8.5	4.8	7.5	0.6	C212G563-3B****	0.027	9.80	8.6	5.0	7.5	0.6	C212J273-3B****	1.2	30.2	19.8	11.5	27.5	0.8	C212J125-BB****	
0.068	12.3	8.2	4.5	10.0	0.6	C212G683-4B****	0.033	12.3	8.3	4.7	10.0	0.6	C212J333-4B****	1.5	30.2	21.2	12.8	27.5	0.8	C212J155-BB****	
0.082	12.3	8.5	4.8	10.0	0.6	C212G823-4B****	0.039	12.3	8.6	4.9	10.0	0.6	C212J393-4B****	1.8	30.2	22.4	14.0	27.5	0.8	C212J185-BB****	
0.10	12.3	9.4	5.0	10.0	0.6	C212G104-4B****	0.047	12.3	9.0	5.3	10.0	0.6	C212J473-4B****	2.2	30.2	23.9	15.5	27.5	0.8	C212J225-BB****	
0.12	12.3	9.8	5.3	10.0	0.6	C212G124-4B****	0.056	12.3	9.3	5.7	10.0	0.6	C212J563-4B****								
0.15	17.5	9.6	5.2	15.0	0.6	C212G154-6B****	0.068	12.3	9.8	6.1	10.0	0.6	C212J683-4B****								
0.18	17.5	9.9	5.5	15.0	0.6	C212G184-6B****	0.082	12.3	10.3	6.6	10.0	0.6	C212J823-4B****								
0.22	17.5	10.4	5.9	15.0	0.6	C212G224-6B****	0.10	17.5	10.9	5.7	15.0	0.6	C212J104-6B****								
0.27	17.5	10.9	6.4	15.0	0.6	C212G274-6B****	0.12	17.5	11.3	6.1	15.0	0.6	C212J124-6B****								
0.33	17.5	11.9	6.7	15.0	0.6	C212G334-6B****	0.15	17.5	11.9	6.6	15.0	0.6	C212J154-6B****								
0.39	17.5	12.9	7.2	15.0	0.8	C212G394-6B****	0.18	17.5	12.9	7.2	15.0	0.8	C212J184-6B****								
0.47	17.5	13.5	8.3	15.0	0.8	C212G474-6B****	0.22	17.5	13.5	8.3	15.0	0.8	C212J224-6B****								
0.56	17.5	14.1	8.9	15.0	0.8	C212G564-6B****	0.27	17.5	14.3	9.0	15.0	0.8	C212J274-6B****								
0.68	17.5	14.9	9.7	15.0	0.8	C212G684-6B****	0.33	17.5	15.1	9.8	15.0	0.8	C212J334-6B****								
0.82	17.5	15.7	10.5	15.0	0.8	C212G824-6B****	0.39	17.5	15.8	10.6	15.0	0.8	C212J394-6B****								
1.0	25.2	16.6	8.2	22.5	0.8	C212G105-9B****															
1.2	25.2	17.3	9.0	22.5	0.8	C212G125-9B****															
1.5	25.2	18.3	9.9	22.5	0.8	C212G155-9B****															
1.8	30.2	18.1	9.7	27.5	0.8	C212G185-BB****															
2.2	30.2	20.0	10.1	27.5	0.8	C212G225-BB****															
2.7	30.2	21.1	11.2	27.5	0.8	C212G275-BB****															
3.3	30.2	22.3	12.4	27.5	0.8	C212G335-BB****															
3.5	30.2	22.7	12.8	27.5	0.8	C212G355-BB****															
3.9	30.2	23.5	13.5	27.5	0.8	C212G395-BB****															
4.7	30.2	24.8	14.9	27.5	0.8	C212G475-BB****															

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “@”不用作跨线,请参见抗干扰电容器(Page 109)。
 “@” Not suitable for across-the-line applications. Pls refer to interference Suppression Capacitors(Page 109).



C21
CL21 series

■ 外形尺寸 Dimensions(mm)
Pattern III

50Vdc (30Vac) /63Vdc (40Vac) #							100Vdc (63Vac)							250Vdc(160Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.12	9.8	7.0	4.0	7.5	0.6	C211J124-3A****	0.12	9.8	7.0	4.0	7.5	0.6	C212A124-3A****	0.010	9.8	6.5	3.5	7.5	0.6	C212E103-3A****
0.15	9.8	7.8	4.1	7.5	0.6	C211J154-3A****	0.15	9.8	7.8	4.1	7.5	0.6	C212A154-3A****	0.012	9.8	6.7	3.7	7.5	0.6	C212E123-3A****
0.18	9.8	7.5	3.9	7.5	0.6	C211J184-3A****	0.18	9.8	7.5	3.9	7.5	0.6	C212A184-3A****	0.015	9.8	7.4	3.8	7.5	0.6	C212E153-3A****
0.22	9.8	7.8	4.1	7.5	0.6	C211J224-3A****	0.22	9.8	7.8	4.1	7.5	0.6	C212A224-3A****	0.018	9.8	7.6	4.0	7.5	0.6	C212E183-3A****
0.27	9.8	8.1	4.5	7.5	0.6	C211J274-3A****	0.27	9.8	8.1	4.5	7.5	0.6	C212A274-3A****	0.022	9.8	7.4	3.8	7.5	0.6	C212E223-3A****
0.33	9.8	7.7	4.1	7.5	0.6	C211J334-3A****	0.33	9.8	8.5	4.8	7.5	0.6	C212A334-3A****	0.027	9.8	7.7	4.1	7.5	0.6	C212E273-3A****
0.39	9.8	8.0	4.3	7.5	0.6	C211J394-3A****	0.39	9.8	8.8	5.2	7.5	0.6	C212A394-3A****	0.033	9.8	7.3	3.7	7.5	0.6	C212E333-3A****
0.47	9.8	8.3	4.6	7.5	0.6	C211J474-3A****	0.47	9.8	9.2	5.6	7.5	0.6	C212A474-3A****	0.039	9.8	7.5	3.9	7.5	0.6	C212E393-3A****
0.56	9.8	8.6	5.0	7.5	0.6	C211J564-3A****	0.56	12.3	8.8	5.2	10.0	0.6	C212A564-4A****	0.047	9.8	7.8	4.1	7.5	0.6	C212E473-3A****
0.68	9.8	9.0	5.4	7.5	0.6	C211J684-3A****	0.68	12.3	9.3	5.6	10.0	0.6	C212A684-4A****	0.056	9.8	8.0	4.4	7.5	0.6	C212E563-3A****
0.82	12.3	8.6	5.0	10.0	0.6	C211J824-4A****	0.82	12.3	9.7	6.1	10.0	0.6	C212A824-4A****	0.068	9.8	7.5	3.9	7.5	0.6	C212E683-3A****
1.0	12.3	9.0	5.4	10.0	0.6	C211J105-4A****	1.0	12.3	10.3	6.6	10.0	0.6	C212A105-4A****	0.082	9.8	7.8	4.1	7.5	0.6	C212E823-3A****
1.2	12.3	9.5	5.9	10.0	0.6	C211J125-4A****	1.2	12.3	10.9	7.2	10.0	0.6	C212A125-4A****	0.10	9.8	8.1	4.4	7.5	0.6	C212E104-3A****
1.5	12.3	10.1	6.5	10.0	0.6	C211J155-4A****	1.5	12.3	11.6	8.0	10.0	0.6	C212A155-4A****	0.12	9.8	8.4	4.8	7.5	0.6	C212E124-3A****
1.8	12.3	10.7	7.1	10.0	0.6	C211J185-4A****	1.8	17.5	13.6	6.3	15.0	0.6	C212A185-6A****	0.15	9.8	8.8	5.2	7.5	0.6	C212E154-3A****
2.2	17.5	11.4	6.1	15.0	0.6	C211J225-6A****	2.2	17.5	14.2	6.9	15.0	0.8	C212A225-6A****	0.18	12.3	8.9	4.5	10.0	0.6	C212E184-4A****
2.7	17.5	11.9	6.7	15.0	0.6	C211J275-6A****	2.7	17.5	14.9	7.6	15.0	0.8	C212A275-6A****	0.22	12.3	9.3	4.8	10.0	0.6	C212E224-4A****
3.3	17.5	12.5	7.3	15.0	0.6	C211J335-6A****	3.3	17.5	15.7	8.4	15.0	0.8	C212A335-6A****	0.27	12.3	9.7	5.3	10.0	0.6	C212E274-4A****
3.9	17.5	13.6	7.9	15.0	0.8	C211J395-6A****	3.9	17.5	16.4	9.1	15.0	0.8	C212A395-6A****	0.33	12.3	10.7	5.5	10.0	0.6	C212E334-4A****
4.7	25.2	14.4	7.6	22.5	0.8	C211J475-9A****	4.7	25.2	17.0	8.1	22.5	0.8	C212A475-9A****	0.39	17.5	10.4	5.2	15.0	0.6	C212E394-6A****
5.6	25.2	14.9	7.7	22.5	0.8	C211J565-9A****	5.6	25.2	17.7	8.8	22.5	0.8	C212A565-9A****	0.47	17.5	10.8	5.6	15.0	0.6	C212E474-6A****
6.8	25.2	15.6	8.3	22.5	0.8	C211J685-9A****	6.8	25.2	18.5	10.2	22.5	0.8	C212A685-9A****	0.56	17.5	12.3	5.5	15.0	0.6	C212E564-6A****
8.2	25.2	16.4	9.6	22.5	0.8	C211J825-9A****	8.2	25.2	19.5	11.1	22.5	0.8	C212A825-9A****	0.68	17.5	12.8	6.0	15.0	0.6	C212E684-6A****
10.0	25.2	17.2	10.5	22.5	0.8	C211J106-9A****	10.0	25.2	21.5	11.6	22.5	0.8	C212A106-9A****	0.82	17.5	13.8	6.5	15.0	0.6	C212E824-6A****
														1.0	17.5	14.4	7.1	15.0	0.6	C212E105-6A****
														1.2	17.5	15.0	7.7	15.0	0.8	C212E125-6A****
														1.5	17.5	15.9	9.1	15.0	0.8	C212E155-6A****
														1.8	17.5	16.2	9.9	15.0	0.8	C212E185-6A****
														2.2	25.2	15.6	8.8	22.5	0.8	C212E225-9A****
														2.7	25.2	16.5	9.7	22.5	0.8	C212E275-9A****
														3.3	25.2	17.4	10.6	22.5	0.8	C212E335-9A****
														3.9	25.2	19.2	10.9	22.5	0.8	C212E395-9A****
														4.7	25.2	20.3	11.9	22.5	0.8	C212E475-9A****
														5.6	30.2	20.4	12.1	27.5	0.8	C212E565-BA****
														6.8	30.2	21.6	13.3	27.5	0.8	C212E685-BA****
														8.2	30.2	22.9	14.5	27.5	0.8	C212E825-BA****
														10.0	30.2	24.4	16.0	27.5	0.8	C212E106-BA****

400Vdc(200Vac)							400Vdc(200Vac)							400Vdc(200Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.010	9.8	6.9	3.9	7.5	0.6	C212G103-3A****	0.082	12.3	9.4	5.0	10.0	0.6	C212G823-4A****	0.68	17.5	16.0	10.8	15.0	0.8	C212G684-6A****
0.012	9.8	7.1	4.1	7.5	0.6	C212G123-3A****	0.10	12.3	9.9	5.4	10.0	0.6	C212G104-4A****	0.82	17.5	17.0	11.8	15.0	0.8	C212G824-6A****
0.015	9.8	7.5	4.4	7.5	0.6	C212G153-3A****	0.12	12.3	10.3	5.9	10.0	0.6	C212G124-4A****	1.0	25.2	17.5	9.1	22.5	0.8	C212G105-9A****
0.018	9.8	7.3	3.7	7.5	0.6	C212G183-3A****	0.15	17.5	10.6	5.4	15.0	0.6	C212G154-6A****	1.2	25.2	18.3	9.9	22.5	0.8	C212G125-9A****
0.022	9.8	7.5	3.9	7.5	0.6	C212G223-3A****	0.18	17.5	11.0	5.8	15.0	0.6	C212G184-6A****	1.5	25.2	19.4	11.0	22.5	0.8	C212G155-9A****
0.027	9.8	7.8	4.2	7.5	0.6	C212G273-3A****	0.22	17.5	11.5	6.3	15.0	0.6	C212G224-6A****	1.8	30.2	19.1	10.8	27.5	0.8	C212G185-BA****
0.033	9.8	8.1	4.5	7.5	0.6	C212G333-3A****	0.27	17.5	12.0	6.8	15.0	0.6	C212G274-6A****	2.2	30.2	21.2	11.3	27.5	0.8	C212G225-BA****
0.039	9.8	8.2	4.6	7.5	0.6	C212G393-3A****	0.33	17.5	12.7	7.4	15.0	0.6	C212G334-6A****	2.7	30.2	22.4	12.5	27.5	0.8	C212G275-BA****
0.047	9.8	8.6	4.9	7.5	0.6	C212G473-3A****	0.39	17.5	13.7	8.0	15.0	0.8	C212G394-6A****	3.3	30.2	23.8	13.9	27.5	0.8	C212G335-BA****
0.056	12.3	8.8	4.3	10.0	0.6	C212G563-4A****	0.47	17.5	14.4	9.2	15.0	0.8	C212G474-6A****	3.9	30.2	25.1	15.1	27.5	0.8	C212G395-BA****
0.068	12.3	9.1	4.7	10.0	0.6	C212G683-4A****	0.56	17.5	15.1	9.9	15.0	0.8	C212G564-6A****	4.7	30.2	26.6	16.7	27.5	0.8	C212G475-BA****

备注 Note: 1. “-”表示容量偏差。 “ ”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为50Vdc时,第4~5位是1H。“#”when the rated voltage is 50Vdc, the digit 4~5 is 1H.

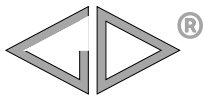


■ 外形尺寸 Dimensions(mm)

Pattern III

630Vdc (220Vac) [®]							1 000Vdc (250Vac) [®]							1 250Vdc(250Vac) [®]						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.010	12.3	7.4	3.8	10.0	0.6	C212J103-4A****	0.0010	9.8	8.5	4.0	7.5	0.6	C213A102-3A****	0.0010	9.8	8.5	4.0	7.5	0.6	C213B102-3A****
0.012	12.3	7.6	4.0	10.0	0.6	C212J123-4A****	0.0012	9.8	8.7	4.3	7.5	0.6	C213A122-3A****	0.0012	9.8	8.7	4.3	7.5	0.6	C213B122-3A****
0.015	12.3	7.7	4.0	10.0	0.6	C212J153-4A****	0.0015	9.8	8.5	4.1	7.5	0.6	C213A152-3A****	0.0015	9.8	8.5	4.1	7.5	0.6	C213B152-3A****
0.018	12.3	7.9	4.2	10.0	0.6	C212J183-4A****	0.0018	9.8	8.7	4.3	7.5	0.6	C213A182-3A****	0.0018	9.8	8.7	4.3	7.5	0.6	C213B182-3A****
0.022	12.3	8.2	4.5	10.0	0.6	C212J223-4A****	0.0022	9.8	8.5	4.1	7.5	0.6	C213A222-3A****	0.0022	9.8	8.5	4.1	7.5	0.6	C213B222-3A****
0.027	12.3	8.5	4.9	10.0	0.6	C212J273-4A****	0.0027	9.8	8.8	4.4	7.5	0.6	C213A272-3A****	0.0027	9.8	8.8	4.4	7.5	0.6	C213B272-3A****
0.033	12.3	8.9	5.2	10.0	0.6	C212J333-4A****	0.0033	9.8	8.7	4.3	7.5	0.6	C213A332-3A****	0.0033	9.8	9.1	4.7	7.5	0.6	C213B332-3A****
0.039	12.3	9.2	5.6	10.0	0.6	C212J393-4A****	0.0039	9.8	8.9	4.5	7.5	0.6	C213A392-3A****	0.0039	9.8	9.4	5.0	7.5	0.6	C213B392-3A****
0.047	12.3	9.7	6.0	10.0	0.6	C212J473-4A****	0.0047	9.8	9.3	4.8	7.5	0.6	C213A472-3A****	0.0047	12.3	8.7	4.2	10.0	0.6	C213B472-4A****
0.056	12.3	10.1	6.5	10.0	0.6	C212J563-4A****	0.0056	12.3	8.5	4.1	10.0	0.6	C213A562-4A****	0.0056	12.3	8.9	4.5	10.0	0.6	C213B562-4A****
0.068	12.3	10.7	7.0	10.0	0.6	C212J683-4A****	0.0068	12.3	8.8	4.4	10.0	0.6	C213A682-4A****	0.0068	12.3	9.2	4.8	10.0	0.6	C213B682-4A****
0.082	12.3	11.3	7.6	10.0	0.6	C212J823-4A****	0.0082	12.3	9.1	4.7	10.0	0.6	C213A822-4A****	0.0082	17.5	9.0	4.6	15.0	0.6	C213B822-6A****
0.10	17.5	11.5	6.3	15.0	0.6	C212J104-6A****	0.010	12.3	9.4	5.0	10.0	0.6	C213A103-4A****	0.010	17.5	9.4	5.0	15.0	0.6	C213B103-6A****
0.12	17.5	12.0	6.8	15.0	0.6	C212J124-6A****	0.012	12.3	9.8	5.4	10.0	0.6	C213A123-4A****	0.012	17.5	9.1	4.7	15.0	0.6	C213B123-6A****
0.15	17.5	12.7	7.5	15.0	0.8	C212J154-6A****	0.015	12.3	10.8	5.6	10.0	0.6	C213A153-4A****	0.015	17.5	9.5	5.1	15.0	0.6	C213B153-6A****
0.18	17.5	13.8	8.1	15.0	0.8	C212J184-6A****	0.018	12.3	11.3	6.1	10.0	0.6	C213A183-4A****	0.018	17.5	9.9	5.4	15.0	0.6	C213B183-6A****
0.22	17.5	14.5	9.3	15.0	0.8	C212J224-6A****	0.022	12.3	11.9	6.7	10.0	0.6	C213A223-4A****	0.022	17.5	10.3	5.9	15.0	0.6	C213B223-6A****
0.27	17.5	15.4	10.2	15.0	0.8	C212J274-6A****	0.027	17.5	11.8	5.0	15.0	0.6	C213A273-6A****	0.027	25.2	9.7	5.2	22.5	0.6	C213B273-9A****
0.33	17.5	16.3	11.1	15.0	0.8	C212J334-6A****	0.033	17.5	12.3	5.5	15.0	0.6	C213A333-6A****	0.033	25.2	10.1	5.7	22.5	0.6	C213B333-9A****
0.39	17.5	17.2	12.0	15.0	0.8	C212J394-6A****	0.039	17.5	12.7	5.9	15.0	0.6	C213A393-6A****	0.039	25.2	10.5	6.1	22.5	0.8	C213B393-9A****
0.47	25.2	16.4	9.7	22.5	0.8	C212J474-9A****	0.047	17.5	13.2	6.5	15.0	0.8	C213A473-6A****	0.047	25.2	11.0	6.6	22.5	0.8	C213B473-9A****
0.56	25.2	17.2	10.5	22.5	0.8	C212J564-9A****	0.056	17.5	13.8	7.0	15.0	0.8	C213A563-6A****	0.056	30.2	11.4	6.2	27.5	0.8	C213B563-9A****
0.68	25.2	18.2	11.4	22.5	0.8	C212J684-9A****	0.068	17.5	14.5	7.7	15.0	0.8	C213A683-6A****	0.068	30.2	12.0	6.7	27.5	0.8	C213B683-9A****
0.82	25.2	19.3	12.5	22.5	0.8	C212J824-9A****	0.082	17.5	15.2	8.5	15.0	0.8	C213A823-6A****	0.082	30.2	12.6	7.3	27.5	0.8	C213B823-9A****
1.0	30.2	19.9	11.6	27.5	0.8	C212J105-BA****	0.10	17.5	16.6	9.7	15.0	0.8	C213A104-6A****	0.10	30.2	14.8	7.8	27.5	0.8	C213B104-9A****
1.2	30.2	22.0	12.6	27.5	0.8	C212J125-BA****	0.12	25.2	15.3	8.3	22.5	0.8	C213A124-9A****	0.12	30.2	15.4	8.5	27.5	0.8	C213B124-9A****
1.5	30.2	22.5	14.1	27.5	0.8	C212J155-BA****	0.15	25.2	16.2	9.2	22.5	0.8	C213A154-9A****	0.15	30.2	16.4	9.4	27.5	0.8	C213B154-9A****
1.8	30.2	23.8	15.5	27.5	0.8	C212J185-BA****	0.18	25.2	17.1	10.1	22.5	0.8	C213A184-9A****	0.18	30.2	18.3	9.7	27.5	0.8	C213B184-9A****
2.2	30.2	25.5	17.1	27.5	0.8	C212J225-BA****	0.22	25.2	18.1	11.1	22.5	0.8	C213A224-9A****	0.22	30.2	19.3	10.7	27.5	0.8	C213B224-9A****
							0.27	25.2	20.2	11.7	22.5	0.8	C213A274-9A****							
							0.33	30.2	20.1	11.6	27.5	0.8	C213A334-BA****							
							0.39	30.2	21.2	12.6	27.5	0.8	C213A394-BA****							

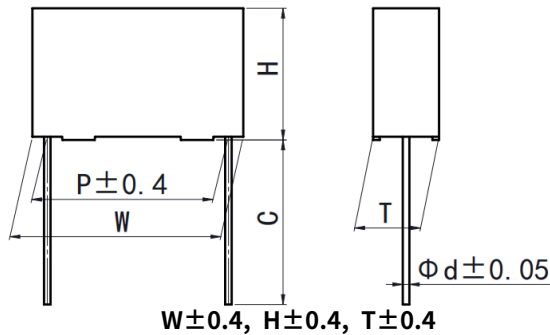
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “@”不用作跨线,请参见抗干扰电容器(Page 109)。
 “@” Not suitable for across-the-line applications. Pls refer to interference Suppression Capacitors(Page 109).



C23
CL23 series

塑料外壳金属化聚酯膜电容器 Metallized polyester film capacitor(Box-type)

外形图 Outline Drawing



特点

- 可靠性高
- 金属化酯膜, 无感卷绕结构
- 塑料外壳(UL94 V-0), 阻燃环氧填充

主要用途

- 旁路, 隔直, 耦合, 退耦
- 脉冲, 逻辑, 定时, 振荡电路

Features

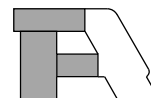
- High reliability
- Metallized polyester film, non-inductive wound construction
- Plastic case(UL94 V-0), epoxy resin sealing

Typical Applications

- By-passing, blocking, coupling, decoupling
- Pulse, logic, timing, oscillator circuits

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)					
气候类别 Climatic Category	55/105/56					
额定温度 Rated Temperature	85°C					
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)					
额定电压 Rated Voltage	63V, 100V, 160V, 250V, 400V, 630V, 1 000V					
电容量范围 Capacitance Range	0.0010 μ F~ 47.0 μ F					
电容量偏差 Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M)					
耐电压 Voltage Proof	1.6 U_R (5s)					
损耗角正切 Dissipation Factor	$\leq 1.0\%$ (20°C, 1kHz)					
绝缘电阻 Insulation Resistance	$U_R > 100V$	$R \geq 15\ 000M\Omega$, $C_N \leq 0.33\mu F$ (20°C, 100V, 1min) $RC_N \geq 5\ 000s$, $C_N > 0.33\mu F$				
	$U_R \leq 100V$	$R \geq 3\ 750M\Omega$, $C_N \leq 0.33\mu F$ (20°C, 10V, 1min) $RC_N \geq 1\ 250s$, $C_N > 0.33\mu F$				
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt(V/ μ s)				
		P=7.5	P=10.0	P=15.0	P=22.5	P=27.5
	63	7.5	6	3	2	1
	100	15	9	5	3	2
	250	30	20	12	8	5
	400	40	30	20	10	7
630	50	40	25	12	10	
1000	70	60	30	15	12	



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

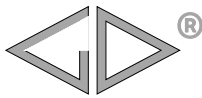
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	3												

第 1~3 位	型号代码 C23= CL23	Digit 1 to 3	Series code C23=CL23
第 4~5 位	直流额定电压 1J=63V 2A=100V 2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V	Digit 4 to 5	D.C. rated voltage 1J=63V 2A=100V 2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V
第 6~8 位	标称容量 举例:103=10×10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差 J=±5%, K=±10%, M=±20%	Digit 9	Capacitance tolerance J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P 3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm	Digit 10	Pitch 3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap. among two consecutive holes P3=12.7mm, H=18.5mm (For pitch=7.5mm)
		4	F=10.0mm			5	P3=25.4mm; H=18.5mm (For pitch=10/15mm) (Detail parameter refer to page 16)
		6	F=15.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		00	标准的引线长度(18mm~26mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				

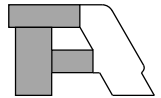


C23
CL23 series

■ 外形尺寸 Dimensions(mm)
Pattern II(Reduced sizes)

63Vdc (40Vac)							100Vdc (63Vac)							250Vdc (160Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.47	10.5	8.5	3.5	7.5	0.5	C231J474-3S****	0.22	10.5	8.5	3.5	7.5	0.5	C232A224-3S****	0.068	10.5	8.5	3.5	7.5	0.5	C232E683-3S****
0.68	10.5	9.0	4.0	7.5	0.6	C231J684-3S****	0.33	10.5	9.0	4.0	7.5	0.6	C232A334-3S****	0.10	10.5	8.5	3.5	7.5	0.5	C232E104-3S****
1.0	10.5	11.0	5.0	7.5	0.6	C231J105-3S****	0.39	10.5	9.0	4.0	7.5	0.6	C232A394-3S****	0.15	10.5	9.0	4.0	7.5	0.6	C232E154-3S****
1.5	10.5	12.0	6.0	7.5	0.6	C231J155-3S****	0.47	10.5	9.0	4.0	7.5	0.6	C232A474-3S****	0.18	10.5	11.0	5.0	7.5	0.6	C232E184-3S****
1.8	10.5	12.0	6.0	7.5	0.6	C231J185-3S****	0.68	10.5	11.0	5.0	7.5	0.6	C232A684-3S****	0.22	10.5	11.0	5.0	7.5	0.6	C232E224-3S****
0.10	13.0	9.0	4.0	10.0	0.6	C231J104-4S****	1.0	10.5	12.0	6.0	7.5	0.6	C232A105-3S****	0.27	10.5	12.0	6.0	7.5	0.6	C232E274-3S****
0.15	13.0	9.0	4.0	10.0	0.6	C231J154-4S****	0.10	13.0	9.0	4.0	10.0	0.6	C232A104-4S****	0.33	10.5	12.0	6.0	7.5	0.6	C232E334-3S****
0.22	13.0	9.0	4.0	10.0	0.6	C231J224-4S****	0.15	13.0	9.0	4.0	10.0	0.6	C232A154-4S****	0.033	13.0	9.0	4.0	10.0	0.6	C232E333-4S****
0.33	13.0	9.0	4.0	10.0	0.6	C231J334-4S****	0.22	13.0	9.0	4.0	10.0	0.6	C232A224-4S****	0.047	13.0	9.0	4.0	10.0	0.6	C232E473-4S****
0.47	13.0	9.0	4.0	10.0	0.6	C231J474-4S****	0.33	13.0	9.0	4.0	10.0	0.6	C232A334-4S****	0.068	13.0	9.0	4.0	10.0	0.6	C232E683-4S****
0.68	13.0	9.0	4.0	10.0	0.6	C231J684-4S****	0.47	13.0	9.0	4.0	10.0	0.6	C232A474-4S****	0.10	13.0	9.0	4.0	10.0	0.6	C232E104-4S****
1.0	13.0	9.0	4.0	10.0	0.6	C231J105-4S****	0.68	13.0	9.0	4.0	10.0	0.6	C232A684-4S****	0.15	13.0	9.0	4.0	10.0	0.6	C232E154-4S****
1.5	13.0	11.0	5.0	10.0	0.6	C231J155-4S****	1.0	13.0	11.0	5.0	10.0	0.6	C232A105-4S****	0.22	13.0	11.0	5.0	10.0	0.6	C232E224-4S****
1.8	13.0	12.0	6.0	10.0	0.6	C231J185-4S****	1.5	13.0	12.0	6.0	10.0	0.6	C232A155-4S****	0.33	13.0	11.0	5.0	10.0	0.6	C232E334-4S****
2.2	13.0	12.0	6.0	10.0	0.6	C231J225-4S****	0.33	17.5	11.0	5.0	15.0	0.8	C232A334-6S****	0.39	13.0	12.0	6.0	10.0	0.6	C232E394-4S****
0.68	17.5	11.0	5.0	15.0	0.8	C231J684-6S****	0.47	17.5	11.0	5.0	15.0	0.8	C232A474-6S****	0.47	13.0	12.0	6.0	10.0	0.6	C232E474-4S****
1.0	17.5	11.0	5.0	15.0	0.8	C231J105-6S****	0.68	17.5	11.0	5.0	15.0	0.8	C232A684-6S****	0.10	17.5	11.0	5.0	15.0	0.8	C232E104-6S****
1.5	17.5	11.0	5.0	15.0	0.8	C231J155-6S****	1.0	17.5	11.0	5.0	15.0	0.8	C232A105-6S****	0.15	17.5	11.0	5.0	15.0	0.8	C232E154-6S****
1.8	17.5	11.0	5.0	15.0	0.8	C231J185-6S****	1.5	17.5	12.0	6.0	15.0	0.8	C232A155-6S****	0.22	17.5	11.0	5.0	15.0	0.8	C232E224-6S****
2.2	17.5	11.0	5.0	15.0	0.8	C231J225-6S****	1.8	17.5	12.0	6.0	15.0	0.8	C232A185-6S****	0.33	17.5	11.0	5.0	15.0	0.8	C232E334-6S****
3.3	17.5	12.0	6.0	15.0	0.8	C231J335-6S****	2.2	17.5	12.0	6.0	15.0	0.8	C232A225-6S****	0.47	17.5	11.0	5.0	15.0	0.8	C232E474-6S****
4.7	17.5	13.5	7.5	15.0	0.8	C231J475-6S****	3.3	17.5	13.5	7.5	15.0	0.8	C232A335-6S****	0.68	17.5	12.0	6.0	15.0	0.8	C232E684-6S****
6.8	17.5	14.5	8.5	15.0	0.8	C231J685-6S****	4.7	17.5	14.5	8.5	15.0	0.8	C232A475-6S****	1.0	17.5	13.5	7.5	15.0	0.8	C232E105-6S****
10.0	17.5	19.0	11.0	15.0	0.8	C231J106-6S****	1.5	26.5	15.0	6.0	22.5	0.8	C232A155-9S****	1.5	17.5	14.5	8.5	15.0	0.8	C232E155-6S****
3.3	26.5	16.0	7.0	22.5	0.8	C231J335-9S****	1.8	26.5	15.0	6.0	22.5	0.8	C232A185-9S****	0.22	26.5	15.0	6.0	22.5	0.8	C232E224-9S****
4.7	26.5	16.0	7.0	22.5	0.8	C231J475-9S****	2.2	26.5	15.0	6.0	22.5	0.8	C232A225-9S****	0.47	26.5	15.0	6.0	22.5	0.8	C232E474-9S****
6.8	26.5	16.0	7.0	22.5	0.8	C231J685-9S****	3.3	26.5	15.0	6.0	22.5	0.8	C232A335-9S****	0.68	26.5	15.0	6.0	22.5	0.8	C232E684-9S****
10.0	26.5	17.0	8.5	22.5	0.8	C231J106-9S****	4.7	26.5	16.0	7.0	22.5	0.8	C232A475-9S****	1.0	26.5	15.0	6.0	22.5	0.8	C232E105-9S****
15.0	26.5	20.0	11.0	22.5	0.8	C231J156-9S****	6.8	26.5	18.5	10.0	22.5	0.8	C232A685-9S****	1.5	26.5	16.0	7.0	22.5	0.8	C232E155-9S****
4.7	32.0	18.0	9.0	27.5	0.8	C231J475-BS****	10.0	26.5	22.0	12.0	22.5	0.8	C232A106-9S****	1.8	26.5	16.0	7.0	22.5	0.8	C232E185-9S****
6.8	32.0	18.0	9.0	27.5	0.8	C231J685-BS****	4.7	32.0	18.0	9.0	27.5	0.8	C232A475-BS****	2.2	26.5	17.0	8.5	22.5	0.8	C232E225-9S****
10.0	32.0	18.0	9.0	27.5	0.8	C231J106-BS****	6.8	32.0	18.0	9.0	27.5	0.8	C232A685-BS****	3.3	26.5	20.0	11.0	22.5	0.8	C232E335-9S****
15.0	32.0	18.0	9.0	27.5	0.8	C231J156-BS****	10.0	32.0	20.0	11.0	27.5	0.8	C232A106-BS****	1.5	32.0	18.0	9.0	27.5	0.8	C232E155-BS****
22.0	32.0	22.0	13.0	27.5	0.8	C231J226-BS****	15.0	32.0	20.0	11.0	27.5	0.8	C232A156-BS****	1.8	32.0	18.0	9.0	27.5	0.8	C232E185-BS****
33.0	32.0	24.5	15.0	27.5	0.8	C231J336-BS****	22.0M	32.0	25.0	13.0	27.5	0.8	C232A226MBS****	2.2	32.0	18.0	9.0	27.5	0.8	C232E225-BS****
47.0	32.0	30.0	16.0	27.5	0.8	C231J476-BS****	33.0	32.0	30.0	16.0	27.5	0.8	C232A336-BS****	3.3	32.0	18.0	9.0	27.5	0.8	C232E335-BS****
														4.7	32.0	20.0	11.0	27.5	0.8	C232E475-BS****
														6.8	32.0	22.0	13.0	27.5	0.8	C232E685-BS****
														10.0	32.0	24.5	15.0	27.5	0.8	C232E106-BS****

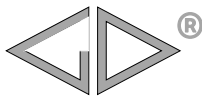
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



■ 外形尺寸 Dimensions(mm)
Pattern II(Reduced sizes)

400Vdc (200Vac)							630Vdc (220Vac)							1 000Vdc (300Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.022	10.5	8.5	3.5	7.5	0.5	C232G223-3S****	0.0022	10.5	8.5	3.5	7.5	0.5	C232J222-3S****	0.0010	10.5	8.5	3.5	7.5	0.5	C233A102-3S****
0.033	10.5	8.5	3.5	7.5	0.5	C232G333-3S****	0.0047	10.5	8.5	3.5	7.5	0.5	C232J472-3S****	0.0015	10.5	8.5	3.5	7.5	0.5	C233A152-3S****
0.047	10.5	9.0	4.0	7.5	0.6	C232G473-3S****	0.0068	10.5	8.5	3.5	7.5	0.5	C232J682-3S****	0.0022	10.5	8.5	3.5	7.5	0.5	C233A222-3S****
0.068	10.5	11.0	5.0	7.5	0.6	C232G683-3S****	0.010	10.5	8.5	3.5	7.5	0.5	C232J103-3S****	0.0033	10.5	8.5	3.5	7.5	0.5	C233A332-3S****
0.082	10.5	12.0	6.0	7.5	0.6	C232G823-3S****	0.015	10.5	9.0	4.0	7.5	0.6	C232J153-3S****	0.0047	10.5	8.5	3.5	7.5	0.5	C233A472-3S****
0.10	10.5	12.0	6.0	7.5	0.6	C232G104-3S****	0.022	10.5	11.0	5.0	7.5	0.6	C232J223-3S****	0.0068	10.5	9.0	4.0	7.5	0.6	C233A682-3S****
0.010	13.0	9.0	4.0	10.0	0.6	C232G103-4S****	0.033	10.5	12.0	6.0	7.5	0.6	C232J333-3S****	0.010	10.5	11.0	5.0	7.5	0.6	C233A103-3S****
0.015	13.0	9.0	4.0	10.0	0.6	C232G153-4S****	0.047	10.5	12.0	6.0	7.5	0.6	C232J473-3S****	0.015	10.5	12.0	6.0	7.5	0.6	C233A153-3S****
0.022	13.0	9.0	4.0	10.0	0.6	C232G223-4S****	0.0047	13.0	9.0	4.0	10.0	0.6	C232J472-4S****	0.0010	13.0	9.0	4.0	10.0	0.6	C233A102-4S****
0.033	13.0	9.0	4.0	10.0	0.6	C232G333-4S****	0.0068	13.0	9.0	4.0	10.0	0.6	C232J682-4S****	0.0015	13.0	9.0	4.0	10.0	0.6	C233A152-4S****
0.047	13.0	9.0	4.0	10.0	0.6	C232G473-4S****	0.010	13.0	9.0	4.0	10.0	0.6	C232J103-4S****	0.0022	13.0	9.0	4.0	10.0	0.6	C233A222-4S****
0.056	13.0	9.0	4.0	10.0	0.6	C232G563-4S****	0.015	13.0	9.0	4.0	10.0	0.6	C232J153-4S****	0.0033	13.0	9.0	4.0	10.0	0.6	C233A332-4S****
0.068	13.0	11.0	5.0	10.0	0.6	C232G683-4S****	0.022	13.0	9.0	4.0	10.0	0.6	C232J223-4S****	0.0047	13.0	9.0	4.0	10.0	0.6	C233A472-4S****
0.10	13.0	11.0	5.0	10.0	0.6	C232G104-4S****	0.033	13.0	11.0	5.0	10.0	0.6	C232J333-4S****	0.0056	13.0	9.0	4.0	10.0	0.6	C233A562-4S****
0.15	13.0	12.0	6.0	10.0	0.6	C232G154-4S****	0.047	13.0	11.0	5.0	10.0	0.6	C232J473-4S****	0.0068	13.0	9.0	4.0	10.0	0.6	C233A682-4S****
0.047	17.5	11.0	5.0	15.0	0.8	C232G473-6S****	0.068	13.0	12.0	6.0	10.0	0.6	C232J683-4S****	0.010	13.0	9.0	4.0	10.0	0.6	C233A103-4S****
0.068	17.5	11.0	5.0	15.0	0.8	C232G683-6S****	0.033	17.5	11.0	5.0	15.0	0.8	C232J333-6S****	0.015	13.0	11.0	5.0	10.0	0.6	C233A153-4S****
0.10	17.5	11.0	5.0	15.0	0.8	C232G104-6S****	0.047	17.5	11.0	5.0	15.0	0.8	C232J473-6S****	0.022	13.0	11.0	5.0	10.0	0.6	C233A223-4S****
0.15	17.5	11.0	5.0	15.0	0.8	C232G154-6S****	0.068	17.5	11.0	5.0	15.0	0.8	C232J683-6S****	0.010	17.5	11.0	5.0	15.0	0.8	C233A103-6S****
0.22	17.5	12.0	6.0	15.0	0.8	C232G224-6S****	0.10	17.5	12.0	6.0	15.0	0.8	C232J104-6S****	0.015	17.5	11.0	5.0	15.0	0.8	C233A153-6S****
0.33	17.5	13.5	7.5	15.0	0.8	C232G334-6S****	0.15	17.5	13.5	7.5	15.0	0.8	C232J154-6S****	0.022	17.5	11.0	5.0	15.0	0.8	C233A223-6S****
0.47	17.5	14.5	8.5	15.0	0.8	C232G474-6S****	0.22	17.5	16.0	10.0	15.0	0.8	C232J224-6S****	0.033	17.5	12.0	6.0	15.0	0.8	C233A333-6S****
0.56	17.5	16.0	10.0	15.0	0.8	C232G564-6S****	0.33	17.5	19.0	11.0	15.0	0.8	C232J334-6S****	0.047	17.5	12.0	6.0	15.0	0.8	C233A473-6S****
0.68	17.5	16.0	10.0	15.0	0.8	C232G684-6S****	0.10	26.5	15.0	6.0	22.5	0.8	C232J104-9S****	0.068	17.5	13.5	7.5	15.0	0.8	C233A683-6S****
0.22	26.5	15.0	6.0	22.5	0.8	C232G224-9S****	0.15	26.5	15.0	6.0	22.5	0.8	C232J154-9S****	0.10	17.5	14.5	8.5	15.0	0.8	C233A104-6S****
0.33	26.5	15.0	6.0	22.5	0.8	C232G334-9S****	0.22	26.5	16.0	7.0	22.5	0.8	C232J224-9S****	0.033	26.5	15.0	6.0	22.5	0.8	C233A333-9S****
0.47	26.5	15.0	6.0	22.5	0.8	C232G474-9S****	0.33	26.5	16.0	7.0	22.5	0.8	C232J334-9S****	0.047	26.5	15.0	6.0	22.5	0.8	C233A473-9S****
0.68	26.5	16.0	7.0	22.5	0.8	C232G684-9S****	0.47	26.5	17.0	8.5	22.5	0.8	C232J474-9S****	0.068	26.5	15.0	6.0	22.5	0.8	C233A683-9S****
1.0	26.5	18.50	10.0	22.5	0.8	C232G105-9S****	0.68	26.5	22.0	12.0	22.5	0.8	C232J684-9S****	0.10	26.5	15.0	6.0	22.5	0.8	C233A104-9S****
1.5	26.5	22.0	12.0	22.5	0.8	C232G155-9S****	0.33	32.0	18.0	9.0	27.5	0.8	C232J334-BS****	0.15	26.5	16.0	7.0	22.5	0.8	C233A154-9S****
0.68	32.0	18.0	9.0	27.5	0.8	C232G684-BS****	0.47	32.0	18.0	9.0	27.5	0.8	C232J474-BS****	0.22	26.5	17.0	8.5	22.5	0.8	C233A224-9S****
1.0	32.0	18.0	9.0	27.5	0.8	C232G105-BS****	0.68	32.0	20.0	11.0	27.5	0.8	C232J684-BS****	0.33	26.5	20.0	11.0	22.5	0.8	C233A334-9S****
1.5	32.0	20.0	11.0	27.5	0.8	C232G155-BS****	1.0K	32.0	20.0	11.0	27.5	0.8	C232J105KBS****	0.15	32.0	18.0	9.0	27.5	0.8	C233A154-BS****
1.8	32.0	20.0	11.0	27.5	0.8	C232G185-BS****							0.22	32.0	18.0	9.0	27.5	0.8	C233A224-BS****	
2.2	32.0	22.0	13.0	27.5	0.8	C232G225-BS****							0.33	32.0	20.0	11.0	27.5	0.8	C233A334-BS****	
3.3	32.0	24.5	15.0	27.5	0.8	C232G335-BS****							0.47	32.0	20.0	11.0	27.5	0.8	C233A474-BS****	
4.7	32.0	30.0	16.0	27.5	0.8	C232G475-BS****							0.68	32.0	28.0	14.0	27.5	0.8	C233A684-BS****	
6.8	32.0	33.0	18.0	27.5	0.8	C232G685-BS****							1.0	32.0	30.0	16.0	27.5	0.8	C233A105-BS****	
													1.5	32.0	37.0	22.0	27.5	0.8	C233A155-BS****	

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “@”不用作跨线,请参见抗干扰电容器(Page 109)。
 “@” Not suitable for across-the-line applications. Pls refer to interference Suppression Capacitors(Page 109).



C22
CL21X series

金属化聚酯膜电容器(浸渍型) Metallized polyester film capacitor(dipped)

外形图 Outline Drawing

	Forming Lead Shapes			
	I	II	III	IV
	$P \geq F$		$P < F$	
	$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
	$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$			

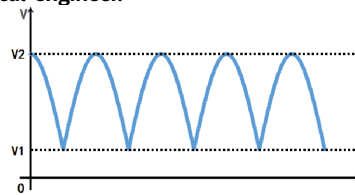
特点

- 金属化聚酯膜, 无感卷绕结构
- 体积小, 自愈性好
- 阻燃性环氧粉末封装(UL94/V-0)

主要用途

- 用于开关电源、电子镇流器和变频器等中间电路直流滤波(如: DC-Link、PFC等)

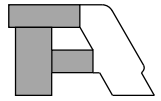
a: The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.



Here: $V_1 \geq 0, V_2 \leq U_R, V_{Rms} = (V_2 - V_1) \div \sqrt{2}, I_{rms} = 2 \pi f \times C \times (V_2 - V_1) \div \sqrt{2}$
 U_R is the rated voltage of the capacitor

技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)				
气候类别 Climatic Category	55/105/21				
额定温度 Rated Temperature	85°C				
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)				
额定电压 Rated Voltage	250V, 400/450V, 520V, 630V				
电容量范围 Capacitance Range	0.010μF~10.0μF				
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)				
耐电压 Voltage Proof	1.6 U_R (5s)				
损耗角正切 Dissipation Factor	≤0.8% (20°C, 1kHz)				
绝缘电阻 Insulation Resistance	$R \geq 7500\Omega, C_N \leq 0.33\mu F$ $RC_N \geq 2500s, C_N > 0.33\mu F$ (20°C, 100V, 1min)				
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt(V/μs)			
			P=7.5	P=10.0	P=15.0
	250	80	60	50	30
	400/450	150	120	100	50
	520	200	180	150	80
630	350	300	200	100	



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

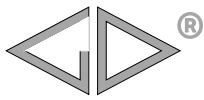
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	2												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C22= CL21X		C22= CL21X
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2E=250V 2G=400V 2S=450V		2E=250V 2G=400V 2S=450V
	2T=520V 2J=630V		2T=520V 2J=630V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm		3=7.5mm 4=10.0mm
	6=15.0mm 9=22.5mm		6=15.0mm 9=22.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm (For pitch=5.0/7.5mm)
		3	F=7.5mm			E	P3=25.4mm; H=20.0mm(For pitch=10.0/15.0mm)
		4	F=10.0mm				(Detail parameter refer to page 17)
6	F=15.0mm						
F	引线成型 lead kinked	2	F=5.0mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
		3	F=7.5mm				
		4	F=10.0mm				
		6	F=15.0mm				
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第 12-15 位代码为 “C000” 表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)



■ 外形尺寸 Dimensions(mm)

小型化 Miniature version

250Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number
0.22	9.8	7.9	4.0	7.5	0.5	C222E224-3S****
0.27	9.8	8.8	4.1	7.5	0.5	C222E274-3S****
0.33	9.8	9.1	4.5	7.5	0.5	C222E334-3S****
0.47	9.8	11.4	5.0	7.5	0.5	C222E474-3S****
0.56	9.8	12.9	5.1	7.5	0.5	C222E564-3S****
0.68	9.8	13.4	5.6	7.5	0.5	C222E684-3S****
0.82	9.8	13.9	6.1	7.5	0.5	C222E824-3S****
1.00	9.8	14.5	6.7	7.5	0.5	C222E105-3S****
0.33	12.3	7.9	4.1	10.0	0.6	C222E334-4S****
0.47	12.3	9.6	4.2	10.0	0.6	C222E474-4S****
0.56	12.3	9.9	4.7	10.0	0.6	C222E564-4S****
0.68	12.3	10.3	5.1	10.0	0.6	C222E684-4S****
0.82	12.3	10.8	5.5	10.0	0.6	C222E824-4S****
1.00	12.3	11.3	6.1	10.0	0.6	C222E105-4S****

520Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number
0.033	9.8	7.7	3.9	7.5	0.5	C222T333-3S****
0.047	9.8	8.8	4.1	7.5	0.5	C222T473-3S****
0.068	9.8	9.4	4.8	7.5	0.5	C222T683-3S****
0.10	9.8	10.8	5.8	7.5	0.5	C222T104-3S****
0.15	9.8	11.9	7.0	7.5	0.5	C222T154-3S****
0.068	12.3	8.7	4.0	10.0	0.6	C222T683-4S****
0.10	12.3	9.9	4.5	10.0	0.6	C222T104-4S****
0.15	12.3	10.7	5.3	10.0	0.6	C222T154-4S****
0.22	12.3	13.3	6.0	10.0	0.6	C222T224-4S****
0.33	12.3	14.6	7.3	10.0	0.6	C222T334-4S****

400Vdc/450Vdc [#]						
C _N (μF)	W max	H max	T max	P	d	Part number
0.047	9.8	6.9	3.7	7.5	0.5	C222G473-3S****
0.068	9.8	7.8	4.0	7.5	0.5	C222G683-3S****
0.082	9.8	8.7	4.0	7.5	0.5	C222G823-3S****
0.10	9.8	9.0	4.4	7.5	0.5	C222G104-3S****
0.12	9.8	9.3	4.7	7.5	0.5	C222G124-3S****
0.15	9.8	10.8	5.1	7.5	0.5	C222G154-3S****
0.18	9.8	11.2	5.5	7.5	0.5	C222G184-3S****
0.22	9.8	11.8	6.0	7.5	0.5	C222G224-3S****
0.27	9.8	12.4	6.6	7.5	0.5	C222G274-3S****
0.10	12.3	8.4	3.8	10.0	0.6	C222G104-4S****
0.12	12.3	8.7	4.0	10.0	0.6	C222G124-4S****
0.15	12.3	9.0	4.4	10.0	0.6	C222G154-4S****
0.18	12.3	9.4	4.7	10.0	0.6	C222G184-4S****
0.22	12.3	10.3	4.9	10.0	0.6	C222G224-4S****
0.27	12.3	10.8	5.4	10.0	0.6	C222G274-4S****
0.33	12.3	12.3	5.4	10.0	0.6	C222G334-4S****
0.47	12.3	13.9	6.6	10.0	0.6	C222G474-4S****
0.68	12.3	16.8	7.4	10.0	0.6	C222G684-4S****
0.82	12.3	17.5	8.2	10.0	0.6	C222G824-4S****
1.00	12.3	18.4	9.1	10.0	0.6	C222G105-4S****

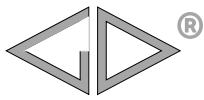
备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****” 表示引线加工和包装代码(见表1)。“****” =lead form and packing code(refer to table 1).
 3. “#” 当额定电压为 450Vdc 时, 第 4~5 位是 2S。“#” when the rated voltage is 450Vdc, the digit 4~5 is 2S.



■ 外形尺寸 Dimensions(mm)

250Vdc							400Vdc/450Vdc [#]						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.10	9.8	7.7	4.0	7.5	0.5	C222E104-30****	0.033	10.0	7.1	4.0	7.5	0.5	C222G333-30****
0.15	9.8	8.3	4.5	7.5	0.5	C222E154-30****	0.047	10.0	7.1	4.0	7.5	0.5	C222G473-30****
0.22	10.0	9.9	4.9	7.5	0.5	C222E224-30****	0.068	10.0	8.0	4.4	7.5	0.5	C222G683-30****
0.33	10.0	10.4	5.7	7.5	0.5	C222E334-30****	0.10	10.0	9.7	5.1	7.5	0.5	C222G104-30****
0.47	10.0	11.8	6.3	7.5	0.5	C222E474-30****	0.15	10.0	10.6	6.0	7.5	0.5	C222G154-30****
0.68	10.0	13.9	6.9	7.5	0.5	C222E684-30****	0.22	10.3	12.1	6.7	7.5	0.5	C222G224-30****
1.0	10.0	15.3	8.4	7.5	0.5	C222E105-30****	0.10	12.5	9.1	4.4	10.0	0.6	C222G104-40****
0.33	12.5	9.0	5.2	10.0	0.6	C222E334-40****	0.15	12.5	9.7	5.1	10.0	0.6	C222G154-40****
0.47	12.5	10.8	5.4	10.0	0.6	C222E474-40****	0.22	12.5	11.1	5.7	10.0	0.6	C222G224-40****
0.68	12.5	11.7	6.3	10.0	0.6	C222E684-40****	0.33	12.5	13.2	6.2	10.0	0.6	C222G334-40****
1.0	12.5	14.4	7.4	10.0	0.6	C222E105-40****	0.47	12.5	15.4	6.8	10.0	0.6	C222G474-40****
1.5	12.5	16.9	8.4	10.0	0.6	C222E155-40****	0.68	12.5	16.8	8.2	10.0	0.6	C222G684-40****
2.2	12.5	19.7	9.5	10.0	0.6	C222E225-40****	1.0	12.5	19.6	9.4	10.0	0.6	C222G105-40****
0.47	17.8	9.3	4.7	15.0	0.8	C222E474-60****	0.22	17.8	10.3	4.9	15.0	0.8	C222G224-60****
0.68	17.8	10.0	5.4	15.0	0.8	C222E684-60****	0.33	17.8	11.1	5.7	15.0	0.8	C222G334-60****
1.0	17.8	12.0	6.5	15.0	0.8	C222E105-60****	0.47	17.8	13.1	6.1	15.0	0.8	C222G474-60****
1.5	17.8	14.2	7.2	15.0	0.8	C222E155-60****	0.68	17.8	15.3	6.8	15.0	0.8	C222G684-60****
2.2	17.8	16.6	8.0	15.0	0.8	C222E225-60****	1.0	17.8	17.2	8.7	15.0	0.8	C222G105-60****
3.3	17.8	19.3	9.2	15.0	0.8	C222E335-60****	1.5	17.8	20.1	10.0	15.0	0.8	C222G155-60****
4.7	17.8	21.2	11.0	15.0	0.8	C222E475-60****	2.2	17.8	22.3	12.2	15.0	0.8	C222G225-60****
1.0	25.5	10.9	5.5	22.5	0.8	C222E105-90****	0.47	25.5	11.3	5.9	22.5	0.8	C222G474-90****
1.5	25.5	12.9	5.9	22.5	0.8	C222E155-90****	0.68	25.5	13.3	6.3	22.5	0.8	C222G684-90****
2.2	25.5	13.9	6.9	22.5	0.8	C222E225-90****	1.0	25.5	14.4	7.4	22.5	0.8	C222G105-90****
3.3	25.5	16.4	7.8	22.5	0.8	C222E335-90****	1.5	25.5	16.9	8.3	22.5	0.8	C222G155-90****
4.7	25.5	18.8	8.7	22.5	0.8	C222E475-90****	2.2	25.5	19.6	9.5	22.5	0.8	C222G225-90****
6.8	25.5	20.6	10.5	22.5	0.8	C222E685-90****	3.3	25.5	21.8	11.7	22.5	0.8	C222G335-90****
10.0	25.5	23.0	12.9	22.5	0.8	C222E106-90****							

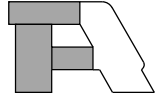
备注 Note: 1. “-” 表示容量偏差。 “#” =capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code(refer to table 1).
 3. “#” 当额定电压为 450Vdc 时, 第 4~5 位是 2S。“#” when the rated voltage is 450Vdc, the digit 4~5 is 2S.



■ 外形尺寸 Dimensions(mm)

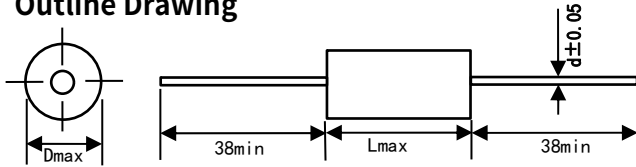
520Vdc							630Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.022	9.8	7.5	4.0	7.5	0.5	C222T223-30****	0.010	9.8	7.6	4.1	7.5	0.5	C222J103-30****
0.033	9.8	8.5	4.4	7.5	0.5	C222T333-30****	0.015	9.8	7.6	4.1	7.5	0.5	C222J153-30****
0.047	9.8	9.6	4.7	7.5	0.5	C222T473-30****	0.022	9.8	8.1	4.6	7.5	0.5	C222J223-30****
0.068	9.8	10.4	5.4	7.5	0.5	C222T683-30****	0.033	9.8	9.2	5.1	7.5	0.5	C222J333-30****
0.068	12.5	9.6	4.7	10.0	0.6	C222T683-40****	0.047	9.8	10.5	5.5	7.5	0.5	C222J473-30****
0.10	12.5	10.9	5.5	10.0	0.6	C222T104-40****	0.068	9.8	11.9	6.2	7.5	0.5	C222J683-30****
0.15	12.5	11.9	6.5	10.0	0.6	C222T154-40****	0.10	9.8	13.1	7.7	7.5	0.5	C222J104-30****
0.22	12.5	14.1	7.1	10.0	0.6	C222T224-40****	0.047	12.5	9.6	4.6	10.0	0.6	C222J473-40****
0.33	12.5	15.6	8.6	10.0	0.6	C222T334-40****	0.068	12.5	10.3	5.3	10.0	0.6	C222J683-40****
0.10	17.8	9.4	4.7	15.0	0.8	C222T104-60****	0.10	12.5	11.2	6.5	10.0	0.6	C222J104-40****
0.15	17.8	10.2	5.5	15.0	0.8	C222T154-60****	0.15	12.5	13.9	6.9	10.0	0.6	C222J154-40****
0.22	17.8	11.6	6.1	15.0	0.8	C222T224-60****	0.22	12.5	15.3	8.3	10.0	0.6	C222J224-40****
0.33	17.8	13.7	6.7	15.0	0.8	C222T334-60****	0.10	17.8	10.6	5.1	15.0	0.8	C222J104-60****
0.47	17.8	14.9	7.9	15.0	0.8	C222T474-60****	0.15	17.8	12.5	5.5	15.0	0.8	C222J154-60****
0.68	17.8	17.5	8.9	15.0	0.8	C222T684-60****	0.22	17.8	13.5	6.5	15.0	0.8	C222J224-60****
1.0	17.8	20.9	10.7	15.0	0.8	C222T105-60****	0.33	17.8	14.8	7.8	15.0	0.8	C222J334-60****
1.5	17.8	23.4	13.2	15.0	0.8	C222T155-60****	0.47	17.8	16.3	9.2	15.0	0.8	C222J474-60****
0.33	25.5	12.4	5.4	22.5	0.8	C222T334-90****	0.68	17.8	19.1	10.4	15.0	0.8	C222J684-60****
0.47	25.5	13.3	6.3	22.5	0.8	C222T474-90****	1.0	17.8	22.8	12.6	15.0	0.8	C222J105-60****
0.68	25.5	15.5	7.0	22.5	0.8	C222T684-90****	1.5	17.8	25.8	15.6	15.0	0.8	C222J155-60****
1.0	25.5	18.5	8.4	22.5	0.8	C222T105-90****	0.22	25.5	11.2	5.7	22.5	0.8	C222J224-90****
1.5	25.5	20.4	10.3	22.5	0.8	C222T155-90****	0.33	25.5	12.2	6.7	22.5	0.8	C222J334-90****
2.2	25.5	22.6	12.5	22.5	0.8	C222T225-90****	0.47	25.5	14.3	7.3	22.5	0.8	C222J474-90****
							0.68	25.5	15.7	8.7	22.5	0.8	C222J684-90****
							1.0	25.5	20.0	9.8	22.5	0.8	C222J105-90****
							1.5	25.5	22.2	12.1	22.5	0.8	C222J155-90****
							2.2	25.5	24.9	14.8	22.5	0.8	C222J225-90****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%.
2. “****”表示引线加工和包装代码(见表1)。 “****”=lead form and packing code(refer to table 1).



轴向金属化聚酯膜电容器 Metallized polyester film capacitor(Axial-type)

外形图 Outline Drawing



特点

- 金属化聚酯膜, 卷绕结构
- 体积小, 重量轻, 自愈性能优异
- 外包装聚酯胶带纸, 两端灌注环氧树脂

主要用途

- 隔直、旁路和耦合(去耦)

技术要求 Specifications

Features

- Metallized polyester film, non-inductive wound construction
- Small size, light weight, excellent self-healing property
- Wrapped with polyester adhesive tape and ends filled

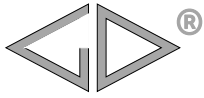
Typical Applications

- Suitable for blocking, by-pass, coupling, and decoupling

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)					
气候类别 Climatic Category	55/105/21					
额定温度 Rated Temperature	85°C					
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U _R)					
额定电压 Rated Voltage	50V, 63V, 100V, 250V, 400V, 630V, 1 000V					
电容量范围 Capacitance Range	0.0010μF~10.0μF					
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)					
耐电压 Voltage Proof	1.6U _R (5s)					
损耗角正切 Dissipation Factor	≤1.0%(20°C, 1kHz)					
绝缘电阻 Insulation Resistance	U _R >100V	R≥30 000Ω, RC _N ≥10 000s,	C _N ≤0.33μF C _N >0.33μF	(20°C, 100V, 1min)		
	U _R ≤100V	R≥3 750Ω, RC _N ≥1 250s,	C _N ≤0.33μF C _N >0.33μF	(20°C, 10V, 1min)		
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)				
		L=12.0	L=14.5	L=20.0	L=27.5	L=33.0
	50/63	6	6	2	1.5	1
	100	9	9	3	2	1
	250	20	20	8	5	2.5
	400	30	30	10	7	4
	630	40	40	15	10	6
1000	50	50	25	12	8	

The 15 digits part number is formed as follow:

第 1~3 位 型号代码 C20=CL20	Digit 1 to 3	Series code C20=CL20
第 4~5 位 直流额定电压 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 3A=1 000V	Digit 4 to 5	D.C. rated voltage 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 3A=1 000V
第 6~8 位 标称容量 举例: 103=10×10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10 ³ pF=0.01μF
第 9 位 容量偏差 J=±5%, K=±10%, M=±20%	Digit 9	Capacitance tolerance J=±5%, K=±10%, M=±20%
第 10 位 轴向 0 代表轴向	Digit 10	Axial 0= axial
第 11 位 内部特征码	Digit 11	Internal use
第 12~15 位 引线加工和包装代码 C000 表示标准的引线长度(38mm min)	Digit 12 to 15	Lead form and packaging code C000 means lead length(38mm min)

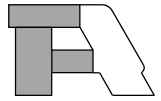


C20
CL20 series

■ 外形尺寸 Dimensions(mm)

50Vdc (30Vac) /63Vdc (40Vac) #					100Vdc (63Vac)					250Vdc(160Vac)				
C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number
0.33	5.2	12.0	0.6	C201J334-00C000	0.068	5.2	12.0	0.6	C202A683-00C000	0.047	5.2	12.0	0.6	C202E473-00C000
0.39	5.5	12.0	0.6	C201J394-00C000	0.082	5.2	12.0	0.6	C202A823-00C000	0.056	5.2	12.0	0.6	C202E563-00C000
0.47	5.5	14.5	0.6	C201J474-00C000	0.10	5.2	12.0	0.6	C202A104-00C000	0.068	5.2	12.0	0.6	C202E683-00C000
0.56	6.0	14.5	0.6	C201J564-00C000	0.12	5.2	12.0	0.6	C202A124-00C000	0.082	5.2	12.0	0.6	C202E823-00C000
0.68	6.0	14.5	0.6	C201J684-00C000	0.15	5.2	12.0	0.6	C202A154-00C000	0.10	5.5	14.5	0.6	C202E104-00C000
0.82	6.5	14.5	0.6	C201J824-00C000	0.18	5.2	12.0	0.6	C202A184-00C000	0.12	5.5	14.5	0.6	C202E124-00C000
1.0	7.0	14.5	0.8	C201J105-00C000	0.22	5.2	12.0	0.6	C202A224-00C000	0.15	5.5	14.5	0.6	C202E154-00C000
1.2	7.0	14.5	0.8	C201J125-00C000	0.27	5.2	12.0	0.6	C202A274-00C000	0.18	5.5	14.5	0.6	C202E184-00C000
1.5	6.7	20.0	0.8	C201J155-00C000	0.33	6.0	14.5	0.6	C202A334-00C000	0.22	6.0	14.5	0.6	C202E224-00C000
1.8	7.0	20.0	0.8	C201J185-00C000	0.39	6.0	14.5	0.6	C202A394-00C000	0.27	6.5	14.5	0.6	C202E274-00C000
2.2	7.5	20.0	0.8	C201J225-00C000	0.47	6.0	14.5	0.6	C202A474-00C000	0.33	6.5	20.0	0.6	C202E334-00C000
2.7	8.5	20.0	0.8	C201J275-00C000	0.56	6.0	14.5	0.6	C202A564-00C000	0.39	6.5	20.0	0.6	C202E394-00C000
3.3	9.0	20.0	0.8	C201J335-00C000	0.68	6.8	14.5	0.8	C202A684-00C000	0.47	7.0	20.0	0.8	C202E474-00C000
3.9	9.5	20.0	0.8	C201J395-00C000	0.82	7.0	14.5	0.8	C202A824-00C000	0.56	7.5	20.0	0.8	C202E564-00C000
4.7	8.5	27.5	0.8	C201J475-00C000	1.0	7.7	20.0	0.8	C202A105-00C000	0.68	8.0	20.0	0.8	C202E684-00C000
5.6	9.0	27.5	0.8	C201J565-00C000	1.2	7.0	20.0	0.8	C202A125-00C000	0.82	8.5	20.0	0.8	C202E824-00C000
6.8	10.0	27.5	0.8	C201J685-00C000	1.5	8.0	20.0	0.8	C202A155-00C000	1.0	9.0	20.0	0.8	C202E105-00C000
8.2	10.5	27.5	0.8	C201J825-00C000	1.8	8.5	20.0	0.8	C202A185-00C000	1.2	8.5	27.5	0.8	C202E125-00C000
10.0	11.0	33.0	0.8	C201J106-00C000	2.2	9.0	20.0	0.8	C202A225-00C000	1.5	9.0	27.5	0.8	C202E155-00C000
					2.7	9.5	20.0	0.8	C202A275-00C000	1.8	9.5	27.5	0.8	C202E185-00C000
					3.3	9.5	27.5	0.8	C202A335-00C000	2.2	11.0	33.0	0.8	C202E225-00C000
					3.9	9.5	27.5	0.8	C202A395-00C000	2.7	12.0	33.0	0.8	C202E275-00C000
					4.7	10.0	33.0	0.8	C202A475-00C000	3.3	13.0	33.0	0.8	C202E335-00C000
					5.6	10.5	33.0	0.8	C202A565-00C000	3.9	14.5	33.0	0.8	C202E395-00C000
					6.8	11.5	33.0	0.8	C202A685-00C000	4.7	15.5	33.0	0.8	C202E475-00C000
					8.2	12.5	33.0	0.8	C202A825-00C000	5.6	16.5	33.0	1.0	C202E565-00C000
					10.0	13.9	33.0	0.8	C202A106-00C000	6.8	18.5	33.0	1.0	C202E685-00C000
										8.2	20.0	33.0	1.0	C202E825-00C000
										10.0	22.0	33.0	1.0	C202E106-00C000

备注 Note: 1. “-”表示容量偏差。 “L”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. # 当额定电压为 50Vdc 时, 第 4~5 位是 1H。 “#” when the rated voltage is 50Vdc, the digit 4~5 is 1H.



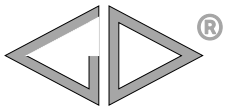
■ 外形尺寸 Dimensions(mm)

400Vdc (200Vac)					630Vdc (220Vac)					1000Vdc(250Vac)				
C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number
0.010	5.2	12.0	0.6	C202G103-00C000	0.0010	5.2	12.0	0.6	C202J102-00C000	0.0010	5.2	12.0	0.6	C203A102-00C000
0.012	5.2	12.0	0.6	C202G123-00C000	0.0012	5.2	12.0	0.6	C202J122-00C000	0.0012	5.2	12.0	0.6	C203A122-00C000
0.015	5.2	12.0	0.6	C202G153-00C000	0.0015	5.2	12.0	0.6	C202J152-00C000	0.0015	5.2	12.0	0.6	C203A152-00C000
0.018	5.2	12.0	0.6	C202G183-00C000	0.0018	5.2	12.0	0.6	C202J182-00C000	0.0018	5.2	12.0	0.6	C203A182-00C000
0.022	5.2	12.0	0.6	C202G223-00C000	0.0022	5.2	12.0	0.6	C202J222-00C000	0.0022	5.2	12.0	0.6	C203A222-00C000
0.027	5.2	12.0	0.6	C202G273-00C000	0.0027	5.2	12.0	0.6	C202J272-00C000	0.0027	5.2	12.0	0.6	C203A272-00C000
0.033	5.2	12.0	0.6	C202G333-00C000	0.0033	5.2	12.0	0.6	C202J332-00C000	0.0033	5.2	12.0	0.6	C203A332-00C000
0.039	5.2	14.5	0.6	C202G393-00C000	0.0039	5.2	12.0	0.6	C202J392-00C000	0.0039	5.2	12.0	0.6	C203A392-00C000
0.047	6.5	14.5	0.6	C202G473-00C000	0.0047	5.2	12.0	0.6	C202J472-00C000	0.0047	5.2	14.5	0.6	C203A472-00C000
0.056	6.5	14.5	0.6	C202G563-00C000	0.0056	5.2	12.0	0.6	C202J562-00C000	0.0056	5.2	14.5	0.6	C203A562-00C000
0.068	6.5	14.5	0.6	C202G683-00C000	0.0068	6.0	12.0	0.6	C202J682-00C000	0.0068	5.2	14.5	0.6	C203A682-00C000
0.082	7.0	14.5	0.8	C202G823-00C000	0.0082	6.0	12.0	0.6	C202J822-00C000	0.0082	6.0	14.5	0.6	C203A822-00C000
0.10	7.5	14.5	0.8	C202G104-00C000	0.010	6.0	14.5	0.6	C202J103-00C000	0.010	6.0	20.0	0.6	C203A103-00C000
0.12	8.0	14.5	0.8	C202G124-00C000	0.012	6.0	14.5	0.6	C202J123-00C000	0.012	6.0	20.0	0.6	C203A123-00C000
0.15	7.0	20.0	0.6	C202G154-00C000	0.015	6.5	14.5	0.6	C202J153-00C000	0.015	6.5	20.0	0.6	C203A153-00C000
0.18	7.0	20.0	0.8	C202G184-00C000	0.018	7.0	14.5	0.8	C202J183-00C000	0.018	6.5	20.0	0.6	C203A183-00C000
0.22	7.5	20.0	0.8	C202G224-00C000	0.022	7.5	14.5	0.8	C202J223-00C000	0.022	7.0	20.0	0.8	C203A223-00C000
0.27	8.0	20.0	0.8	C202G274-00C000	0.027	8.0	14.5	0.8	C202J273-00C000	0.027	7.5	20.0	0.8	C203A273-00C000
0.33	9.0	20.0	0.8	C202G334-00C000	0.033	7.0	20.0	0.8	C202J333-00C000	0.033	6.5	27.5	0.6	C203A333-00C000
0.39	9.5	20.0	0.8	C202G394-00C000	0.039	7.5	20.0	0.8	C202J393-00C000	0.039	6.5	27.5	0.6	C203A393-00C000
0.47	8.5	27.5	0.8	C202G474-00C000	0.047	7.5	20.0	0.8	C202J473-00C000	0.047	7.0	27.5	0.8	C203A473-00C000
0.56	9.0	27.5	0.8	C202G564-00C000	0.056	8.0	20.0	0.8	C202J563-00C000	0.056	7.5	27.5	0.8	C203A563-00C000
0.68	10.0	27.5	0.8	C202G684-00C000	0.068	8.5	20.0	0.8	C202J683-00C000	0.068	8.0	27.5	0.8	C203A683-00C000
0.82	10.5	27.5	0.8	C202G824-00C000	0.082	9.0	20.0	0.8	C202J823-00C000	0.082	8.5	27.5	0.8	C203A823-00C000
1.0	10.5	33.0	0.8	C202G105-00C000	0.10	8.0	27.5	0.8	C202J104-00C000	0.10	9.0	27.5	0.8	C203A104-00C000
1.2	11.5	33.0	0.8	C202G125-00C000	0.12	8.5	27.5	0.8	C202J124-00C000	0.12	9.5	27.5	0.8	C203A124-00C000
1.5	12.5	33.0	0.8	C202G155-00C000	0.15	9.0	27.5	0.8	C202J154-00C000	0.15	9.5	33.0	0.8	C203A154-00C000
1.8	13.5	33.0	0.8	C202G185-00C000	0.18	10.0	27.5	0.8	C202J184-00C000	0.18	10.0	33.0	0.8	C203A184-00C000
2.2	14.5	33.0	0.8	C202G225-00C000	0.22	10.5	27.5	0.8	C202J224-00C000	0.22	11.0	33.0	0.8	C203A224-00C000
2.7	16.0	33.0	1.0	C202G275-00C000	0.27	11.5	27.5	0.8	C202J274-00C000	0.27	12.0	33.0	0.8	C203A274-00C000
3.3	17.5	33.0	1.0	C202G335-00C000	0.33	11.0	33.0	0.8	C202J334-00C000	0.33	13.0	33.0	0.8	C203A334-00C000
					0.39	12.0	33.0	0.8	C202J394-00C000	0.39	14.0	33.0	0.8	C203A394-00C000
					0.47	12.5	33.0	0.8	C202J474-00C000	0.47	15.0	33.0	0.8	C203A474-00C000
					0.56	13.5	33.0	0.8	C202J564-00C000					
					0.68	14.5	33.0	0.8	C202J684-00C000					
					0.82	16.0	33.0	1.0	C202J824-00C000					
					1.0	17.5	33.0	1.0	C202J105-00C000					

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%.

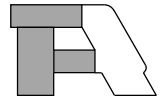
2. “@”不用作跨线, 请参见抗干扰电容器 (Page 109)。

“@” Not suitable for across-the-line applications. Pls refer to interference Suppression Capacitors (Page 109).



聚丙烯膜电容器 Polypropylene Capacitors

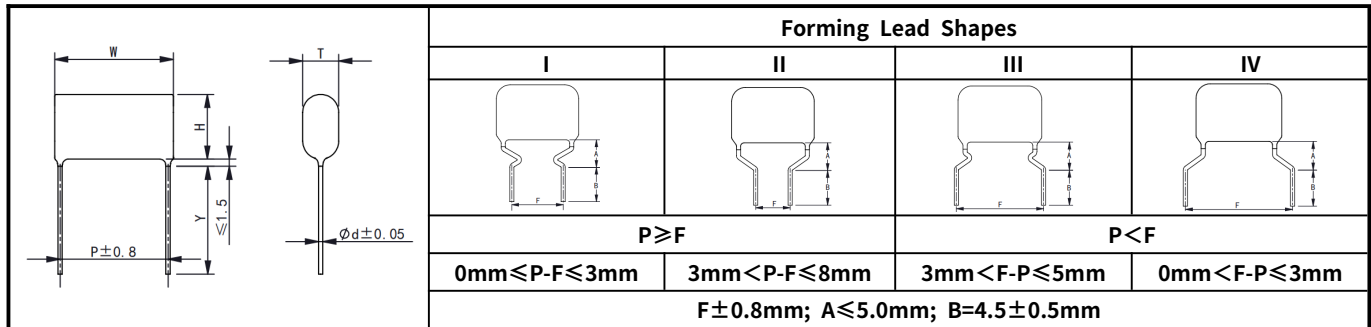
型号 Type	特征 Description	特点 Application	规格 Rating	页码 Page
C31 (CBB21)	金属化, 浸渍型 Metallized, dipped	适用于高频、大电流场合 High frequency, high current application	100/250V: 0.010 μ F ~3.3 μ F 400V: 0.010 μ F ~1.0 μ F 630V: 0.0010 μ F ~0.56 μ F 1 000/1 250V: 0.0010 μ F ~0.010 μ F	63
C32 (MKP21)	金属化, 塑壳封装 Metallized, Box-type	适用于高频、大电流场合 High frequency, high current application	160V: 0.068 μ F ~8.2 μ F 250V: 0.012 μ F ~8.2 μ F 400V: 0.0039 μ F ~3.9 μ F 630V: 0.0010 μ F ~0.15 μ F 1 000V: 0.0010 μ F ~0.015 μ F 1 600V: 0.0010 μ F ~0.10 μ F 2 000V: 0.0010 μ F ~0.056 μ F	67
C33 (MKP23)	金属化, 塑壳封装 Metallized, Box-type	高压、大电流的脉冲电路, 高频交流负荷 Pulse applications with high A.C. voltage and high current High-frequency A.C. loads	400Vac: 0.00082 μ F ~0.15 μ F 500Vac: 0.00056 μ F ~0.12 μ F 600Vac: 0.00047 μ F ~0.10 μ F 700Vac: 0.00056 μ F ~0.056 μ F 900Vac: 0.00056 μ F ~0.033 μ F	74
C82 (MMKP82)	双面金属化结构, 塑壳封装 Double sided metallized Box-type	适用于高频、高脉冲场合 High frequency, pulse application	250V: 0.0068 μ F ~3.9 μ F 400V: 0.0027 μ F ~1.8 μ F 630V: 0.00068 μ F ~1.2 μ F 1 000V: 0.00047 μ F ~0.47 μ F 1 400/1 600V: 0.0033 μ F ~0.33 μ F 2 000V: 0.00022 μ F ~0.15 μ F	80
C84 (MMKP84)	双面金属化结构, 塑壳封装 Double sided metallized Box-type	适用于高压高频、高脉冲场合 High voltage, frequency, pulse application	250Vac 0.010 μ F ~0.10 μ F 300Vac: 0.010 μ F ~0.10 μ F 400Vac: 0.0056 μ F ~0.10 μ F 500Vac: 0.0010 μ F ~0.10 μ F 700Vac: 0.0010 μ F ~0.12 μ F 900Vac: 0.0010 μ F ~0.022 μ F	85
C35 (MKP25)	金属化, 塑壳封装 Metallized, Box-type	用于开关电源、电子镇流器和变频器等中间电路直流滤波(如: DC-Link、PFC等) As intermediate circuit capacitors for SMPS, Electronic Ballast, inverter (i.e. DC-link, DC-filter and P.F.C)	450V: 0.068 μ F ~22.0 μ F 520V: 0.047 μ F ~18.0 μ F 630V: 0.027 μ F ~12.0 μ F	88
C37	金属化, 浸渍型 Metallized, dipped	用于开关电源、电子镇流器和变频器等中间电路直流滤波(如: DC-Link、PFC等) As intermediate circuit capacitors for SMPS, Electronic Ballast, inverter (i.e. DC-link, DC-filter and P.F.C)	450V: 0.047 μ F ~18.0 μ F 520V: 0.039 μ F ~12.0 μ F 630V: 0.027 μ F ~10.0 μ F	93
C14 (CBB81)	膜/箔式串联结构, 浸渍型 Metallized / foil series, dipped	适用于高频、高脉冲场合, 大电流场合 High frequency, pulse, large current application	630/800V: 0.0010 μ F ~0.036 μ F 1 000/1 250V: 0.0010 μ F ~0.022 μ F 1 600V: 0.0010 μ F ~0.012 μ F 2 000V: 0.0010 μ F ~0.010 μ F 2 500V: 0.0010 μ F ~0.0078 μ F	98
C13 (CBB13)	无感箔式, 浸渍型 Metal foil, non-inductive, dipped	损耗低、多用途 Small loss multipurpose applications	100V/160V: 0.0010 μ F ~0.10 μ F 200V/250V: 0.0010 μ F ~0.10 μ F 400V/630V: 0.0010 μ F ~0.01 μ F 800V: 0.0010 μ F ~0.01 μ F	102
C30 (CBB20)	金属化, 轴向 Metallized, axial type	多用途 Multipurpose applications	100/160V: 0.022 μ F ~15 μ F 250V 0.010 μ F ~15 μ F 400V: 0.0068 μ F ~10 μ F 630V: 0.0010 μ F ~3.3 μ F 1 000V: 0.0010 μ F ~1.5 μ F 1 250V: 0.0010 μ F ~1.5 μ F	106



金属化聚丙烯膜电容器(浸渍型)

Metallized polypropylene film capacitor(dipped)

外形图 Outline Drawing



特点

- 金属化聚丙烯膜介质
- 高频损耗小
- 内部温升小
- 阻燃环氧粉末包封 (UL94/V-0)

Features

- Metallized polypropylene film
- Low loss at high frequency
- Small inherent temperature rise
- Flame retardant epoxy resin powder coating(UL94/V-0)

主要用途

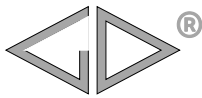
- 广泛应用于高频、直流、交流和脉冲电路中
- 适用于大屏幕显视器的 S 校正电路
- 适用于各种高频、大电流场合

Typical Applications

- Widely used in high frequency, DC, AC and pulse circuits
- Suitable for S-correction circuits of large screen monitor
- Suitable for the situation where applies high frequency and high current pulse

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别 Climatic Category	40/105/21				
额定温度 Rated Temperature	85°C				
工作温度 Operating Temperature Range	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)				
额定电压 Rated Voltage	100V, 250V, 400V, 630V, 1 000V, 1 250V				
电容量范围 Capacitance Range	0.0010μF~3.3μF				
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)				
耐电压 Voltage Proof	1.6 U_R (5s)				
损耗角正切 Dissipation Factor	$\leq 10 \times 10^{-4}$ (20°C, 1kHz)				
绝缘电阻 Insulation Resistance	$R \geq 100\ 000\ \Omega$, $C_N \leq 0.33\ \mu\text{F}$ $RC_N \geq 30\ 000\ \text{s}$, $C_N > 0.33\ \mu\text{F}$ (20°C, 100V, 1min)				
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	Pattern II				
	$U_R(V)$	dV/dt(V/μs)			
		P=7.5	P=10.0	P=15.0	P=22.5
	100/250	660	560	310	130
	400	900	780	600	300
630	1 500	1 200	900	400	
1000/1250	2 500	2 200	-	-	



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	1												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C31= CBB21		C31= CBB21
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2A=100V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V		2A=100V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 5=12.5mm 6=15.0mm 8=20.0mm 9=22.5mm A=25.0mm C=30.0mm		3=7.5mm 4=10.0mm 5=12.5mm 6=15.0mm 8=20.0mm 9=22.5mm A=25.0mm C=30.0mm
第 11 位	内部特征码	Digit 11	Internal use
	S=II 型		S=Pattern II
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm (For pitch=7.5mm)
		4	F=10.0mm			E	P3=25.4mm; H=20.0mm (For pitch=10.0/15.0mm)
		6	F=15.0mm				(Detail parameter refer to page 17)
F	引线成型 lead kinked	4	F=10.0mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
		6	F=15.0mm				
		7	F=17.5mm				
		8	F=20.0mm				
		9	F=22.5mm				
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation	45	引线长度 4.5mm lead length 4.5mm	0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)

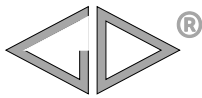


■ 外形尺寸 Dimensions(mm)
Pattern II (Reduced sizes)

100Vdc(63Vac)/250Vdc(160Vac) [#]						
C _N (μF)	W max	H max	T max	P	d	Part number
0.010	9.8	7.7	4.0	7.5	0.6	C312A103-3S****
0.011	9.8	7.8	4.2	7.5	0.6	C312A113-3S****
0.012	9.8	7.9	4.3	7.5	0.6	C312A123-3S****
0.013	9.8	8.0	4.4	7.5	0.6	C312A133-3S****
0.015	9.8	7.8	4.2	7.5	0.6	C312A153-3S****
0.016	9.8	7.9	4.3	7.5	0.6	C312A163-3S****
0.018	9.8	8.1	4.4	7.5	0.6	C312A183-3S****
0.020	9.8	8.2	4.6	7.5	0.6	C312A203-3S****
0.022	9.8	8.4	4.8	7.5	0.6	C312A223-3S****
0.024	9.8	8.6	4.9	7.5	0.6	C312A243-3S****
0.027	9.8	7.6	4.0	7.5	0.6	C312A273-3S****
0.030	9.8	7.7	4.1	7.5	0.6	C312A303-3S****
0.033	9.8	7.9	4.2	7.5	0.6	C312A333-3S****
0.036	9.8	8.0	4.4	7.5	0.6	C312A363-3S****
0.039	9.8	8.1	4.5	7.5	0.6	C312A393-3S****
0.043	9.8	8.3	4.7	7.5	0.6	C312A433-3S****
0.047	9.8	8.5	4.8	7.5	0.6	C312A473-3S****
0.051	12.3	8.0	4.3	10.0	0.6	C312A513-4S****
0.056	12.3	8.1	4.5	10.0	0.6	C312A563-4S****
0.062	12.3	8.3	4.6	10.0	0.6	C312A623-4S****
0.068	12.3	8.5	4.8	10.0	0.6	C312A683-4S****
0.075	12.3	8.6	5.0	10.0	0.6	C312A753-4S****
0.082	12.3	8.8	5.2	10.0	0.6	C312A823-4S****
0.091	12.3	8.1	4.5	10.0	0.6	C312A913-4S****
0.10	12.3	8.3	4.7	10.0	0.6	C312A104-4S****
0.11	12.3	8.5	4.8	10.0	0.6	C312A114-4S****
0.12	12.3	8.6	5.0	10.0	0.6	C312A124-4S****
0.13	12.3	8.6	4.9	10.0	0.6	C312A134-4S****
0.15	12.3	8.9	5.2	10.0	0.6	C312A154-4S****
0.16	12.3	9.0	5.4	10.0	0.6	C312A164-4S****
0.18	12.3	9.3	5.6	10.0	0.6	C312A184-4S****
0.20	12.3	9.5	5.9	10.0	0.6	C312A204-4S****
0.22	12.3	9.8	6.1	10.0	0.6	C312A224-4S****
0.24	12.3	10.0	6.4	10.0	0.6	C312A244-4S****
0.27	17.5	10.5	5.3	15.0	0.6	C312A274-6S****
0.30	17.5	10.8	5.5	15.0	0.6	C312A304-6S****
0.33	17.5	11.0	5.8	15.0	0.6	C312A334-6S****
0.36	17.5	11.2	6.0	15.0	0.6	C312A364-6S****
0.39	17.5	11.4	6.2	15.0	0.6	C312A394-6S****
0.43	17.5	11.6	6.4	15.0	0.6	C312A434-6S****
0.47	17.5	11.9	6.6	15.0	0.6	C312A474-6S****
0.51	17.5	12.1	6.9	15.0	0.6	C312A514-6S****
0.56	17.5	12.4	7.2	15.0	0.6	C312A564-6S****
0.62	17.5	12.7	7.5	15.0	0.8	C312A624-6S****
0.68	17.5	13.5	7.8	15.0	0.8	C312A684-6S****
0.75	17.5	13.9	8.2	15.0	0.8	C312A754-6S****
0.82	17.5	14.2	8.5	15.0	0.8	C312A824-6S****
0.91	17.5	14.9	8.9	15.0	0.8	C312A914-6S****
1.0	17.5	15.0	9.3	15.0	0.8	C312A105-6S****
1.1	17.5	15.5	9.7	15.0	0.8	C312A115-6S****
1.2	25.2	14.8	7.5	22.5	0.8	C312A125-9S****
1.3	25.2	15.1	7.8	22.5	0.8	C312A135-9S****
1.5	25.2	15.6	8.3	22.5	0.8	C312A155-9S****
1.6	25.2	15.9	8.6	22.5	0.8	C312A165-9S****
1.8	25.2	16.4	9.1	22.5	0.8	C312A185-9S****
2.0	25.2	16.9	10.1	22.5	0.8	C312A205-9S****
2.2	25.2	18.3	9.9	22.5	0.8	C312A225-9S****
2.4	25.2	18.7	10.4	22.5	0.8	C312A245-9S****
2.7	25.2	19.3	10.9	22.5	0.8	C312A275-9S****
3.0	25.2	19.9	11.6	22.5	0.8	C312A305-9S****
3.3	25.2	20.5	12.1	22.5	0.8	C312A335-9S****

400Vdc(200Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.010	9.8	7.8	4.1	7.5	0.6	C312G103-3S****
0.011	9.8	7.9	4.2	7.5	0.6	C312G113-3S****
0.012	9.8	8.0	4.4	7.5	0.6	C312G123-3S****
0.013	9.8	8.1	4.5	7.5	0.6	C312G133-3S****
0.015	9.8	8.4	4.7	7.5	0.6	C312G153-3S****
0.016	9.8	8.5	4.8	7.5	0.6	C312G163-3S****
0.018	9.8	8.7	5.0	7.5	0.6	C312G183-3S****
0.020	9.8	8.9	5.3	7.5	0.6	C312G203-3S****
0.022	9.8	9.1	5.5	7.5	0.6	C312G223-3S****
0.024	12.3	8.0	4.3	10.0	0.6	C312G243-4S****
0.027	12.3	8.1	4.5	10.0	0.6	C312G273-4S****
0.030	12.3	8.3	4.7	10.0	0.6	C312G303-4S****
0.033	12.3	8.5	4.8	10.0	0.6	C312G333-4S****
0.036	12.3	8.6	5.0	10.0	0.6	C312G363-4S****
0.039	12.3	8.7	5.0	10.0	0.6	C312G393-4S****
0.043	12.3	8.8	5.2	10.0	0.6	C312G433-4S****
0.047	12.3	9.0	5.4	10.0	0.6	C312G473-4S****
0.051	12.3	9.2	5.6	10.0	0.6	C312G513-4S****
0.056	12.3	9.4	5.8	10.0	0.6	C312G563-4S****
0.062	12.3	8.9	5.2	10.0	0.6	C312G623-4S****
0.068	12.3	9.1	5.4	10.0	0.6	C312G683-4S****
0.075	12.3	9.3	5.7	10.0	0.6	C312G753-4S****
0.082	12.3	9.5	5.9	10.0	0.6	C312G823-4S****
0.091	12.3	9.8	6.1	10.0	0.6	C312G913-4S****
0.10	12.3	10.0	6.4	10.0	0.6	C312G104-4S****
0.11	12.3	10.3	6.6	10.0	0.6	C312G114-4S****
0.12	17.5	10.7	5.5	15.0	0.6	C312G124-6S****
0.13	17.5	10.9	5.7	15.0	0.6	C312G134-6S****
0.15	17.5	11.2	6.0	15.0	0.6	C312G154-6S****
0.16	17.5	11.3	6.1	15.0	0.6	C312G164-6S****
0.18	17.5	11.6	6.4	15.0	0.6	C312G184-6S****
0.20	17.5	11.9	6.7	15.0	0.6	C312G204-6S****
0.22	17.5	12.2	7.0	15.0	0.6	C312G224-6S****
0.24	17.5	12.5	7.3	15.0	0.6	C312G244-6S****
0.27	17.5	12.9	7.6	15.0	0.8	C312G274-6S****
0.30	17.5	13.7	8.0	15.0	0.8	C312G304-6S****
0.33	17.5	14.1	8.4	15.0	0.8	C312G334-6S****
0.36	17.5	14.4	8.7	15.0	0.8	C312G364-6S****
0.39	17.5	14.7	9.0	15.0	0.8	C312G394-6S****
0.43	17.5	15.1	9.4	15.0	0.8	C312G434-6S****
0.47	17.5	15.5	9.8	15.0	0.8	C312G474-6S****
0.51	25.2	14.8	7.6	22.5	0.8	C312G514-9S****
0.56	25.2	15.2	7.9	22.5	0.8	C312G564-9S****
0.62	25.2	15.6	8.3	22.5	0.8	C312G624-9S****
0.68	25.2	15.9	9.1	22.5	0.8	C312G684-9S****
0.75	25.2	16.3	9.6	22.5	0.8	C312G754-9S****
0.82	25.2	16.7	10.0	22.5	0.8	C312G824-9S****
0.91	25.2	17.2	10.5	22.5	0.8	C312G914-9S****
1.0	25.2	17.7	10.9	22.5	0.8	C312G105-9S****

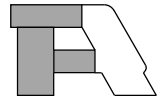
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 250Vdc 时,第 4~5 位是 2E。“#” when the rated voltage is 250Vdc, the digit 4~5 is 2E.



■ 外形尺寸 Dimensions(mm)
Pattern II (Reduced sizes)

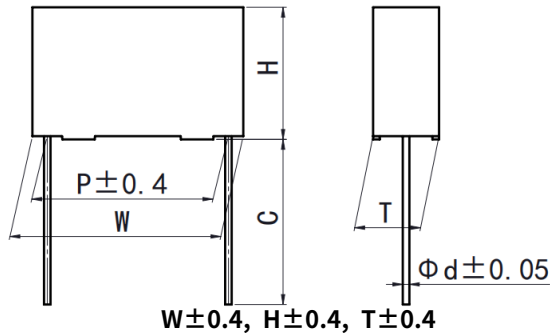
630Vdc(220Vac) [@]							630Vdc(220Vac) [@]							1 000/1 250Vdc (400Vac) [#]						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	10.0	7.9	4.3	7.5	0.6	C312J102-3S****	0.027	12.3	9.4	5.7	10.0	0.6	C312J273-4S****	0.0010	10.0	7.9	4.3	7.5	0.6	C313A102-3S****
0.0011	10.0	8.1	4.4	7.5	0.6	C312J112-3S****	0.030	12.3	9.6	6.0	10.0	0.6	C312J303-4S****	0.0011	10.0	8.1	4.4	7.5	0.6	C313A112-3S****
0.0012	10.0	8.2	4.5	7.5	0.6	C312J122-3S****	0.033	12.3	9.9	6.2	10.0	0.6	C312J333-4S****	0.0012	10.0	8.2	4.5	7.5	0.6	C313A122-3S****
0.0013	10.0	8.3	4.7	7.5	0.6	C312J132-3S****	0.036	12.3	10.1	6.4	10.0	0.6	C312J363-4S****	0.0013	10.0	8.3	4.7	7.5	0.6	C313A132-3S****
0.0015	10.0	8.1	4.4	7.5	0.6	C312J152-3S****	0.039	12.3	10.3	6.7	10.0	0.6	C312J393-4S****	0.0015	10.0	8.1	4.4	7.5	0.6	C313A152-3S****
0.0016	10.0	8.2	4.5	7.5	0.6	C312J162-3S****	0.043	17.5	10.7	5.4	15.0	0.6	C312J433-6S****	0.0016	10.0	8.2	4.5	7.5	0.6	C313A162-3S****
0.0018	10.0	7.8	4.2	7.5	0.6	C312J182-3S****	0.047	17.5	10.8	5.6	15.0	0.6	C312J473-6S****	0.0018	10.0	7.8	4.2	7.5	0.6	C313A182-3S****
0.0020	10.0	8.0	4.3	7.5	0.6	C312J202-3S****	0.051	17.5	11.0	5.8	15.0	0.6	C312J513-6S****	0.0020	10.0	8.0	4.3	7.5	0.6	C313A202-3S****
0.0022	10.0	8.1	4.5	7.5	0.6	C312J222-3S****	0.056	17.5	11.2	6.0	15.0	0.6	C312J563-6S****	0.0022	10.0	8.1	4.5	7.5	0.6	C313A222-3S****
0.0024	9.8	8.0	4.3	7.5	0.6	C312J242-3S****	0.062	17.5	11.4	6.2	15.0	0.6	C312J623-6S****	0.0024	10.0	7.7	4.0	7.5	0.6	C313A242-3S****
0.0027	9.8	8.1	4.5	7.5	0.6	C312J272-3S****	0.068	17.5	11.7	6.5	15.0	0.6	C312J683-6S****	0.0027	10.0	7.8	4.2	7.5	0.6	C313A272-3S****
0.0030	9.8	8.3	4.7	7.5	0.6	C312J302-3S****	0.075	17.5	11.9	6.7	15.0	0.6	C312J753-6S****	0.0030	10.0	8.0	4.4	7.5	0.6	C313A302-3S****
0.0033	9.8	8.5	4.8	7.5	0.6	C312J332-3S****	0.082	17.5	12.2	7.0	15.0	0.6	C312J823-6S****	0.0033	10.0	8.2	4.5	7.5	0.6	C313A332-3S****
0.0036	9.8	8.0	4.4	7.5	0.6	C312J362-3S****	0.091	17.5	12.5	7.3	15.0	0.6	C312J913-6S****	0.0036	10.0	8.3	4.7	7.5	0.6	C313A362-3S****
0.0039	9.8	8.2	4.5	7.5	0.6	C312J392-3S****	0.10	17.5	12.8	7.6	15.0	0.8	C312J104-6S****	0.0039	10.0	8.4	4.8	7.5	0.6	C313A392-3S****
0.0043	9.8	8.3	4.7	7.5	0.6	C312J432-3S****	0.11	17.5	13.6	7.9	15.0	0.8	C312J114-6S****	0.0043	10.0	8.2	4.5	7.5	0.6	C313A432-3S****
0.0047	9.8	8.5	4.9	7.5	0.6	C312J472-3S****	0.12	17.5	13.9	8.2	15.0	0.8	C312J124-6S****	0.0047	10.0	8.3	4.7	7.5	0.6	C313A472-3S****
0.0051	9.8	8.6	5.0	7.5	0.6	C312J512-3S****	0.13	17.5	14.2	8.5	15.0	0.8	C312J134-6S****	0.0051	10.0	8.5	4.8	7.5	0.6	C313A512-3S****
0.0056	9.8	8.8	5.2	7.5	0.6	C312J562-3S****	0.15	17.5	14.7	9.0	15.0	0.8	C312J154-6S****	0.0056	10.0	8.7	5.0	7.5	0.6	C313A562-3S****
0.0062	9.8	9.0	5.4	7.5	0.6	C312J622-3S****	0.16	17.5	15.0	9.3	15.0	0.8	C312J164-6S****	0.0062	10.0	8.7	5.0	7.5	0.6	C313A622-3S****
0.0068	12.3	8.0	4.4	10.0	0.6	C312J682-4S****	0.18	17.5	15.5	9.8	15.0	0.8	C312J184-6S****	0.0068	12.0	8.9	5.2	10.0	0.6	C313A682-4S****
0.0075	12.3	8.2	4.5	10.0	0.6	C312J752-4S****	0.20	17.5	16.0	10.3	15.0	0.8	C312J204-6S****	0.0075	12.0	9.1	5.4	10.0	0.6	C313A752-4S****
0.0082	12.3	8.3	4.7	10.0	0.6	C312J822-4S****	0.22	25.2	15.2	7.9	22.5	0.8	C312J224-9S****	0.0082	12.0	9.3	5.6	10.0	0.6	C313A822-4S****
0.0091	12.3	8.5	4.9	10.0	0.6	C312J912-4S****	0.24	25.2	15.5	8.2	22.5	0.8	C312J244-9S****	0.0091	12.0	9.5	5.9	10.0	0.6	C313A912-4S****
0.010	12.3	7.8	4.1	10.0	0.6	C312J103-4S****	0.27	25.2	15.9	9.2	22.5	0.8	C312J274-9S****	0.010	12.0	9.9	6.3	10.0	0.6	C313A103-4S****
0.011	12.3	7.9	4.2	10.0	0.6	C312J113-4S****	0.30	25.2	16.4	9.6	22.5	0.8	C312J304-9S****							
0.012	12.3	8.0	4.4	10.0	0.6	C312J123-4S****	0.33	25.2	16.8	10.0	22.5	0.8	C312J334-9S****							
0.013	12.3	8.1	4.5	10.0	0.6	C312J133-4S****	0.36	25.2	17.2	10.4	22.5	0.8	C312J364-9S****							
0.015	12.3	8.3	4.7	10.0	0.6	C312J153-4S****	0.39	25.2	17.6	10.8	22.5	0.8	C312J394-9S****							
0.016	12.3	8.5	4.8	10.0	0.6	C312J163-4S****	0.43	25.2	18.1	11.3	22.5	0.8	C312J434-9S****							
0.018	12.3	8.6	4.9	10.0	0.6	C312J183-4S****	0.47	25.2	18.6	11.8	22.5	0.8	C312J474-9S****							
0.020	12.3	8.8	5.1	10.0	0.6	C312J203-4S****	0.51	25.2	19.0	12.2	22.5	0.8	C312J514-9S****							
0.022	12.3	8.9	5.3	10.0	0.6	C312J223-4S****	0.56	25.2	19.6	12.8	22.5	0.8	C312J564-9S****							
0.024	12.3	9.1	5.5	10.0	0.6	C312J243-4S****														

- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 1 250Vdc 时,第 4~5 位是 3B。“#” when the rated voltage is 1 250Vdc, the digit 4~5 is 3B.
 4. “@”不用作跨线,请参见抗干扰电容器(Page 109)。
 “@” Not suitable for across-the-line applications. Pls refer to interference Suppression Capacitors(Page 109).



金属化聚丙烯膜电容器 Metallized polypropylene film capacitor(Box-type)

外形图 Outline Drawing



特点

- 金属化聚丙烯膜
- 高频损耗小
- 内部温升小
- 塑料外壳(UL94 V-0), 阻燃环氧填充

主要用途

- 广泛应用于高频、直流、交流和脉冲电路中
- 电视机、显示器 S 校正电路

Features

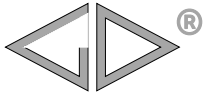
- Metallized polypropylene film
- Low loss at high frequency
- Small inherent temperature rise
- Plastic case(UL94 V-0), epoxy resin sealing

Typical Applications

- Widely used in high frequency, DC, AC and pulse circuits
- S-correction circuits for TV sets and monitors

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)						
气候类别 Climatic Category	55/105/56						
额定温度 Rated Temperature	85°C						
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U _R)						
额定电压 Rated Voltage	160Vdc(90Vac), 250Vdc(160Vac), 400Vdc(220Vac), 630Vdc(250Vac) 1 000Vdc(400Vac), 1 600Vdc(600Vac), 2 000Vdc(700Vac)						
电容量范围 Capacitance Range	0.00056μF~15.0μF						
电容量偏差 Capacitance Tolerance	±2%(G), ±3%(H), ±5%(J), ±10%(K), ±20%(M)						
耐电压 Voltage Proof	1.6U _R (5s)						
损耗角正切 Dissipation Factor	≤10×10 ⁻⁴ (20°C, 1kHz)						
绝缘电阻 Insulation Resistance	R≥100 000MΩ, C _N ≤0.33μF RC _N ≥30 000s, C _N >0.33μF (20°C, 100V, 1min)						
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)					
		P=5.0	P=7.5	P=10.0	P=15.0	P=22.5	P=27.5
	160	110	310	190	110	65	55
	250	270	660	560	310	130	110
	400	440	900	780	600	300	130
	630	550	1500	1200	900	400	200
	1 000	-	-	2200	2 000	800	-
	1 600	-	-	-	4 500	1 800	-
2 000	-	-	-	9 500	4 500	-	



C32

MKP21 series

■ 产品编码说明 Part number system

■ 15 位产品代码如下:

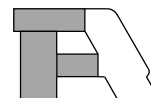
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	2												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C32= MKP21		C32= MKP21
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V 3C=1600V 3D=2 000V		2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V 3C=1600V 3D=2 000V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	G=±2%, H=±3%, J=±5% K=±10%, M=±20%		G=±2%, H=±3%, J=±5% K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm 3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm		2=5.0mm 3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=5.0/7.5mm)
		3	F=7.5mm				5
		4	F=10.0mm				
		6	F=15.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation	0			引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm ~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				

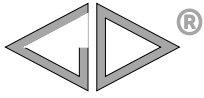


■ 外形尺寸 Dimensions(mm)

160V(90Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.027	7.2	7.5	3.5	5.0	0.5	C322C273-20****
0.033	7.2	7.5	3.5	5.0	0.5	C322C333-20****
0.039	7.2	7.5	3.5	5.0	0.5	C322C393-20****
0.047	7.2	9.5	4.5	5.0	0.6	C322C473-20****
0.056	7.2	9.5	4.5	5.0	0.6	C322C563-20****
0.068	7.2	9.5	4.5	5.0	0.6	C322C683-20****
0.082	7.2	10.0	5.0	5.0	0.6	C322C823-20****
0.10	7.2	10.0	5.0	5.0	0.6	C322C104-20****
0.12	7.2	11.0	6.0	5.0	0.6	C322C124-20****
0.15	7.2	11.0	6.0	5.0	0.6	C322C154-20****
0.068	10.5	9.0	4.0	7.5	0.6	C322C683-30****
0.082	10.5	9.0	4.0	7.5	0.6	C322C823-30****
0.10	10.5	11.0	5.0	7.5	0.6	C322C104-30****
0.12	10.5	11.0	5.0	7.5	0.6	C322C124-30****
0.15	10.5	12.0	6.0	7.5	0.6	C322C154-30****
0.18	10.5	12.0	6.0	7.5	0.6	C322C184-30****
0.082	13.0	9.0	4.0	10.0	0.6	C322C823-40****
0.10	13.0	9.0	4.0	10.0	0.6	C322C104-40****
0.12	13.0	11.0	5.0	10.0	0.6	C322C124-40****
0.15	13.0	11.0	5.0	10.0	0.6	C322C154-40****
0.18	13.0	11.0	5.0	10.0	0.6	C322C184-40****
0.22	13.0	12.0	6.0	10.0	0.6	C322C224-40****
0.27	13.0	12.0	6.0	10.0	0.6	C322C274-40****
0.18	17.5	11.0	5.0	15.0	0.8	C322C184-60****
0.22	17.5	11.0	5.0	15.0	0.8	C322C224-60****
0.27	17.5	11.0	5.0	15.0	0.8	C322C274-60****
0.33	17.5	11.0	5.0	15.0	0.8	C322C334-60****
0.39	17.5	12.0	6.0	15.0	0.8	C322C394-60****
0.47	17.5	12.0	6.0	15.0	0.8	C322C474-60****
0.56	17.5	13.5	7.5	15.0	0.8	C322C564-60****
0.68	17.5	13.5	7.5	15.0	0.8	C322C684-60****

160V(90Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.82	17.5	14.5	8.5	15.0	0.8	C322C824-60****
1.0	17.5	16.0	10.0	15.0	0.8	C322C105-60****
1.2	17.5	16.0	10.0	15.0	0.8	C322C125-60****
1.5	17.5	19.0	11.0	15.0	0.8	C322C155-60****
1.8	17.5	19.0	11.0	15.0	0.8	C322C185-60****
0.47	26.5	15.0	6.0	22.5	0.8	C322C474-90****
0.56	26.5	15.0	6.0	22.5	0.8	C322C564-90****
0.68	26.5	15.0	6.0	22.5	0.8	C322C684-90****
0.82	26.5	16.0	7.0	22.5	0.8	C322C824-90****
1.0	26.5	16.0	7.0	22.5	0.8	C322C105-90****
1.2	26.5	17.0	8.5	22.5	0.8	C322C125-90****
1.5	26.5	17.0	8.5	22.5	0.8	C322C155-90****
1.8	26.5	18.5	10.0	22.5	0.8	C322C185-90****
2.2	26.5	20.0	11.0	22.5	0.8	C322C225-90****
2.7	26.5	22.0	12.0	22.5	0.8	C322C275-90****
3.3	26.5	22.0	12.0	22.5	0.8	C322C335-90****
1.0	32.0	18.0	9.0	27.5	0.8	C322C105-B0****
1.2	32.0	18.0	9.0	27.5	0.8	C322C125-B0****
1.5	32.0	18.0	9.0	27.5	0.8	C322C155-B0****
1.8	32.0	18.0	9.0	27.5	0.8	C322C185-B0****
2.2	32.0	18.0	9.0	27.5	0.8	C322C225-B0****
2.7	32.0	20.0	11.0	27.5	0.8	C322C275-B0****
3.3	32.0	20.0	11.0	27.5	0.8	C322C335-B0****
3.9	32.0	22.0	13.0	27.5	0.8	C322C395-B0****
4.7	32.0	28.0	14.0	27.5	0.8	C322C475-B0****
5.6	32.0	24.5	15.0	27.5	0.8	C322C565-B0****
6.8	32.0	33.0	18.0	27.5	0.8	C322C685-B0****
8.2	32.0	33.0	18.0	27.5	0.8	C322C825-B0****
10.0	32.0	33.0	18.0	27.5	0.8	C322C106-B0****
12.0	32.0	37.0	22.0	27.5	0.8	C322C126-B0****
15.0	32.0	37.0	22.0	27.5	0.8	C322C156-B0****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%.
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).



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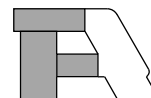
MKP21 series

■ 外形尺寸 Dimensions(mm)

250V(160Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.012	7.2	7.5	3.5	5.0	0.5	C322E123-20****
0.015	7.2	7.5	3.5	5.0	0.5	C322E153-20****
0.018	7.2	7.5	3.5	5.0	0.5	C322E183-20****
0.022	7.2	7.5	3.5	5.0	0.5	C322E223-20****
0.027	7.2	7.5	3.5	5.0	0.5	C322E273-20****
0.033	7.2	7.5	3.5	5.0	0.5	C322E333-20****
0.039	7.2	7.5	3.5	5.0	0.5	C322E393-20****
0.047	7.2	9.5	4.5	5.0	0.6	C322E473-20****
0.056	7.2	9.5	4.5	5.0	0.6	C322E563-20****
0.068	7.2	10.0	5.0	5.0	0.6	C322E683-20****
0.082	7.2	10.0	5.0	5.0	0.6	C322E823-20****
0.10	7.2	11.0	6.0	5.0	0.6	C322E104-20****
0.12	7.2	11.0	6.0	5.0	0.6	C322E124-20****
0.027	10.5	9.0	4.0	7.5	0.6	C322E273-30****
0.033	10.5	9.0	4.0	7.5	0.6	C322E333-30****
0.039	10.5	9.0	4.0	7.5	0.6	C322E393-30****
0.047	10.5	9.0	4.0	7.5	0.6	C322E473-30****
0.056	10.5	9.0	4.0	7.5	0.6	C322E563-30****
0.068	10.5	9.0	4.0	7.5	0.6	C322E683-30****
0.082	10.5	11.0	5.0	7.5	0.6	C322E823-30****
0.10	10.5	11.0	5.0	7.5	0.6	C322E104-30****
0.12	10.5	11.0	5.0	7.5	0.6	C322E124-30****
0.15	10.5	12.0	6.0	7.5	0.6	C322E154-30****
0.18	10.5	12.0	6.0	7.5	0.6	C322E184-30****
0.033	13.0	9.0	4.0	10.0	0.6	C322E333-40****
0.039	13.0	9.0	4.0	10.0	0.6	C322E393-40****
0.047	13.0	9.0	4.0	10.0	0.6	C322E473-40****
0.056	13.0	9.0	4.0	10.0	0.6	C322E563-40****
0.068	13.0	9.0	4.0	10.0	0.6	C322E683-40****
0.082	13.0	9.0	4.0	10.0	0.6	C322E823-40****
0.10	13.0	11.0	5.0	10.0	0.6	C322E104-40****
0.12	13.0	11.0	5.0	10.0	0.6	C322E124-40****
0.15	13.0	11.0	5.0	10.0	0.6	C322E154-40****
0.18	13.0	12.0	6.0	10.0	0.6	C322E184-40****
0.22	13.0	12.0	6.0	10.0	0.6	C322E224-40****
0.10	17.5	11.0	5.0	15.0	0.8	C322E104-60****
0.12	17.5	11.0	5.0	15.0	0.8	C322E124-60****
0.15	17.5	11.0	5.0	15.0	0.8	C322E154-60****

250V(160Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.18	17.5	11.0	5.0	15.0	0.8	C322E184-60****
0.22	17.5	11.0	5.0	15.0	0.8	C322E224-60****
0.27	17.5	12.0	6.0	15.0	0.8	C322E274-60****
0.33	17.5	12.0	6.0	15.0	0.8	C322E334-60****
0.39	17.5	13.5	7.5	15.0	0.8	C322E394-60****
0.47	17.5	13.5	7.5	15.0	0.8	C322E474-60****
0.56	17.5	13.5	7.5	15.0	0.8	C322E564-60****
0.68	17.5	14.5	8.5	15.0	0.8	C322E684-60****
0.82	17.5	16.0	10.0	15.0	0.8	C322E824-60****
1.0	17.5	16.0	10.0	15.0	0.8	C322E105-60****
1.2	17.5	19.0	11.0	15.0	0.8	C322E125-60****
0.39	26.5	15.0	6.0	22.5	0.8	C322E394-90****
0.47	26.5	15.0	6.0	22.5	0.8	C322E474-90****
0.56	26.5	15.0	6.0	22.5	0.8	C322E564-90****
0.68	26.5	15.0	6.0	22.5	0.8	C322E684-90****
0.82	26.5	15.0	6.0	22.5	0.8	C322E824-90****
1.0	26.5	16.0	7.0	22.5	0.8	C322E105-90****
1.2	26.5	17.0	8.5	22.5	0.8	C322E125-90****
1.5	26.5	17.0	8.5	22.5	0.8	C322E155-90****
1.8	26.5	18.5	10.0	22.5	0.8	C322E185-90****
2.2	26.5	20.0	11.0	22.5	0.8	C322E225-90****
2.7	26.5	22.0	12.0	22.5	0.8	C322E275-90****
0.82	32.0	18.0	9.0	27.5	0.8	C322E824-B0****
1.0	32.0	18.0	9.0	27.5	0.8	C322E105-B0****
1.2	32.0	18.0	9.0	27.5	0.8	C322E125-B0****
1.5	32.0	18.0	9.0	27.5	0.8	C322E155-B0****
1.8	32.0	18.0	9.0	27.5	0.8	C322E185-B0****
2.2	32.0	18.0	9.0	27.5	0.8	C322E225-B0****
2.7	32.0	20.0	11.0	27.5	0.8	C322E275-B0****
3.3	32.0	20.0	11.0	27.5	0.8	C322E335-B0****
3.9	32.0	22.0	13.0	27.5	0.8	C322E395-B0****
4.7	32.0	28.0	14.0	27.5	0.8	C322E475-B0****
5.6	32.0	24.5	15.0	27.5	0.8	C322E565-B0****
6.8	32.0	33.0	18.0	27.5	0.8	C322E685-B0****
8.2	32.0	33.0	18.0	27.5	0.8	C322E825-B0****
10.0	32.0	33.0	18.0	27.5	0.8	C322E106-B0****
12.0	32.0	37.0	22.0	27.5	0.8	C322E126-B0****
15.0	32.0	37.0	22.0	27.5	0.8	C322E156-B0****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).

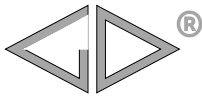


■ 外形尺寸 Dimensions(mm)

400V(220Vac) [@]						
C _N (μF)	W	H	T	P	d	Part number
0.0039	7.2	7.5	3.5	5.0	0.5	C322G392-20****
0.0047	7.2	7.5	3.5	5.0	0.5	C322G472-20****
0.0056	7.2	7.5	3.5	5.0	0.5	C322G562-20****
0.0068	7.2	7.5	3.5	5.0	0.5	C322G682-20****
0.0082	7.2	7.5	3.5	5.0	0.5	C322G822-20****
0.010	7.2	7.5	3.5	5.0	0.5	C322G103-20****
0.012	7.2	7.5	3.5	5.0	0.5	C322G123-20****
0.015	7.2	9.5	4.5	5.0	0.6	C322G153-20****
0.018	7.2	9.5	4.5	5.0	0.6	C322G183-20****
0.022	7.2	9.5	4.5	5.0	0.6	C322G223-20****
0.027	7.2	10.0	5.0	5.0	0.6	C322G273-20****
0.033	7.2	11.0	6.0	5.0	0.6	C322G333-20****
0.039	7.2	11.0	6.0	5.0	0.6	C322G393-20****
0.047	7.2	11.0	6.0	5.0	0.6	C322G473-20****
0.010	10.5	9.0	4.0	7.5	0.6	C322G103-30****
0.012	10.5	9.0	4.0	7.5	0.6	C322G123-30****
0.015	10.5	9.0	4.0	7.5	0.6	C322G153-30****
0.018	10.5	9.0	4.0	7.5	0.6	C322G183-30****
0.022	10.5	9.0	4.0	7.5	0.6	C322G223-30****
0.027	10.5	9.0	4.0	7.5	0.6	C322G273-30****
0.033	10.5	11.0	5.0	7.5	0.6	C322G333-30****
0.039	10.5	11.0	5.0	7.5	0.6	C322G393-30****
0.047	10.5	11.0	5.0	7.5	0.6	C322G473-30****
0.056	10.5	12.0	6.0	7.5	0.6	C322G563-30****
0.068	10.5	12.0	6.0	7.5	0.6	C322G683-30****
0.015	13.0	9.0	4.0	10.0	0.6	C322G153-40****
0.018	13.0	9.0	4.0	10.0	0.6	C322G183-40****
0.022	13.0	9.0	4.0	10.0	0.6	C322G223-40****
0.027	13.0	9.0	4.0	10.0	0.6	C322G273-40****
0.033	13.0	9.0	4.0	10.0	0.6	C322G333-40****
0.039	13.0	9.0	4.0	10.0	0.6	C322G393-40****
0.047	13.0	11.0	5.0	10.0	0.6	C322G473-40****
0.056	13.0	11.0	5.0	10.0	0.6	C322G563-40****
0.068	13.0	11.0	5.0	10.0	0.6	C322G683-40****
0.082	13.0	12.0	6.0	10.0	0.6	C322G823-40****
0.10	13.0	12.0	6.0	10.0	0.6	C322G104-40****
0.068	17.5	11.0	5.0	15.0	0.8	C322G683-60****

400V(220Vac) [@]						
C _N (μF)	W	H	T	P	d	Part number
0.082	17.5	11.0	5.0	15.0	0.8	C322G823-60****
0.10	17.5	11.0	5.0	15.0	0.8	C322G104-60****
0.12	17.5	11.0	5.0	15.0	0.8	C322G124-60****
0.15	17.5	12.0	6.0	15.0	0.8	C322G154-60****
0.18	17.5	12.0	6.0	15.0	0.8	C322G184-60****
0.22	17.5	13.5	7.5	15.0	0.8	C322G224-60****
0.27	17.5	13.5	7.5	15.0	0.8	C322G274-60****
0.33	17.5	14.5	8.5	15.0	0.8	C322G334-60****
0.39	17.5	16.0	10.0	15.0	0.8	C322G394-60****
0.47	17.5	16.0	10.0	15.0	0.8	C322G474-60****
0.56	17.5	19.0	11.0	15.0	0.8	C322G564-60****
0.68	17.5	19.0	11.0	15.0	0.8	C322G684-60****
0.18	26.5	15.0	6.0	22.5	0.8	C322G184-90****
0.22	26.5	15.0	6.0	22.5	0.8	C322G224-90****
0.27	26.5	15.0	6.0	22.5	0.8	C322G274-90****
0.33	26.5	15.0	6.0	22.5	0.8	C322G334-90****
0.39	26.5	16.0	7.0	22.5	0.8	C322G394-90****
0.47	26.5	16.0	7.0	22.5	0.8	C322G474-90****
0.56	26.5	17.0	8.5	22.5	0.8	C322G564-90****
0.68	26.5	17.0	8.5	22.5	0.8	C322G684-90****
0.82	26.5	18.5	10.0	22.5	0.8	C322G824-90****
1.0	26.5	20.0	11.0	22.5	0.8	C322G105-90****
1.2	26.5	22.0	12.0	22.5	0.8	C322G125-90****
1.5	26.5	22.0	12.0	22.5	0.8	C322G155-90****
0.56	32.0	18.0	9.0	27.5	0.8	C322G564-B0****
0.68	32.0	18.0	9.0	27.5	0.8	C322G684-B0****
0.82	32.0	18.0	9.0	27.5	0.8	C322G824-B0****
1.0	32.0	18.0	9.0	27.5	0.8	C322G105-B0****
1.2	32.0	20.0	11.0	27.5	0.8	C322G125-B0****
1.5	32.0	20.0	11.0	27.5	0.8	C322G155-B0****
1.8	32.0	22.0	13.0	27.5	0.8	C322G185-B0****
2.2	32.0	24.5	15.0	27.5	0.8	C322G225-B0****
2.7	32.0	28.0	14.0	27.5	0.8	C322G275-B0****
3.3	32.0	33.0	18.0	27.5	0.8	C322G335-B0****
3.9	32.0	33.0	18.0	27.5	0.8	C322G395-B0****
4.7	32.0	37.0	22.0	27.5	0.8	C322G475-B0****
5.6	32.0	37.0	22.0	27.5	0.8	C322G565-B0****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).
 3. “@”不用作跨线,请参见抗干扰电容器(Page 109)。
 “@” Not suitable for across-the-line application. Pls refer to Interference Suppression Capacitors(Page 109).



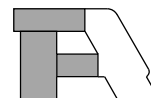
C32

MKP21 series

■ 外形尺寸 Dimensions(mm)

630V(250Vac) [®]							630V(250Vac) [®]							630V(250Vac) [®]						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0010	7.2	7.5	3.5	5.0	0.5	C322J102-20****	0.027	10.5	12.0	6.0	7.5	0.6	C322J273-30****	0.12	17.5	13.5	7.5	15.0	0.8	C322J124-60****
0.0012	7.2	7.5	3.5	5.0	0.5	C322J122-20****	0.033	10.5	12.0	6.0	7.5	0.6	C322J333-30****	0.15	17.5	13.5	7.5	15.0	0.8	C322J154-60****
0.0015	7.2	7.5	3.5	5.0	0.5	C322J152-20****	0.0010	13.0	9.0	4.0	10.0	0.6	C322J102-40****	0.18	17.5	14.5	8.5	15.0	0.8	C322J184-60****
0.0018	7.2	7.5	3.5	5.0	0.5	C322J182-20****	0.0012	13.0	9.0	4.0	10.0	0.6	C322J122-40****	0.22	17.5	16.0	10.0	15.0	0.8	C322J224-60****
0.0022	7.2	7.5	3.5	5.0	0.5	C322J222-20****	0.0015	13.0	9.0	4.0	10.0	0.6	C322J152-40****	0.27	17.5	19.0	11.0	15.0	0.8	C322J274-60****
0.0027	7.2	7.5	3.5	5.0	0.5	C322J272-20****	0.0018	13.0	9.0	4.0	10.0	0.6	C322J182-40****	0.33	17.5	19.0	11.0	15.0	0.8	C322J334-60****
0.0033	7.2	7.5	3.5	5.0	0.5	C322J332-20****	0.0022	13.0	9.0	4.0	10.0	0.6	C322J222-40****	0.082	26.5	15.0	6.0	22.5	0.8	C322J823-90****
0.0039	7.2	9.5	4.5	5.0	0.6	C322J392-20****	0.0027	13.0	9.0	4.0	10.0	0.6	C322J272-40****	0.10	26.5	15.0	6.0	22.5	0.8	C322J104-90****
0.0047	7.2	9.5	4.5	5.0	0.6	C322J472-20****	0.0033	13.0	9.0	4.0	10.0	0.6	C322J332-40****	0.12	26.5	15.0	6.0	22.5	0.8	C322J124-90****
0.0056	7.2	10.0	5.0	5.0	0.6	C322J562-20****	0.0039	13.0	9.0	4.0	10.0	0.6	C322J392-40****	0.15	26.5	15.0	6.0	22.5	0.8	C322J154-90****
0.0068	7.2	10.0	5.0	5.0	0.6	C322J682-20****	0.0047	13.0	9.0	4.0	10.0	0.6	C322J472-40****	0.18	26.5	15.0	6.0	22.5	0.8	C322J184-90****
0.0082	7.2	11.0	6.0	5.0	0.6	C322J822-20****	0.0056	13.0	9.0	4.0	10.0	0.6	C322J562-40****	0.22	26.5	16.0	7.0	22.5	0.8	C322J224-90****
0.010	7.2	11.0	6.0	5.0	0.6	C322J103-20****	0.0068	13.0	9.0	4.0	10.0	0.6	C322J682-40****	0.27	26.5	17.0	8.5	22.5	0.8	C322J274-90****
0.012	7.2	11.0	6.0	5.0	0.6	C322J123-20****	0.0082	13.0	9.0	4.0	10.0	0.6	C322J822-40****	0.33	26.5	17.0	8.5	22.5	0.8	C322J334-90****
0.0010	10.5	9.0	4.0	7.5	0.6	C322J102-30****	0.010	13.0	9.0	4.0	10.0	0.6	C322J103-40****	0.39	26.5	18.5	10.0	22.5	0.8	C322J394-90****
0.0012	10.5	9.0	4.0	7.5	0.6	C322J122-30****	0.012	13.0	9.0	4.0	10.0	0.6	C322J123-40****	0.47	26.5	18.5	10.0	22.5	0.8	C322J474-90****
0.0015	10.5	9.0	4.0	7.5	0.6	C322J152-30****	0.015	13.0	9.0	4.0	10.0	0.6	C322J153-40****	0.56	26.5	20.0	11.0	22.5	0.8	C322J564-90****
0.0018	10.5	9.0	4.0	7.5	0.6	C322J182-30****	0.018	13.0	9.0	4.0	10.0	0.6	C322J183-40****	0.68	26.5	22.0	12.0	22.5	0.8	C322J684-90****
0.0022	10.5	9.0	4.0	7.5	0.6	C322J222-30****	0.022	13.0	11.0	5.0	10.0	0.6	C322J223-40****	0.33	32.0	18.0	9.0	27.5	0.8	C322J334-B0****
0.0027	10.5	9.0	4.0	7.5	0.6	C322J272-30****	0.027	13.0	11.0	5.0	10.0	0.6	C322J273-40****	0.39	32.0	18.0	9.0	27.5	0.8	C322J394-B0****
0.0033	10.5	9.0	4.0	7.5	0.6	C322J332-30****	0.033	13.0	11.0	5.0	10.0	0.6	C322J333-40****	0.47	32.0	18.0	9.0	27.5	0.8	C322J474-B0****
0.0039	10.5	9.0	4.0	7.5	0.6	C322J392-30****	0.039	13.0	12.0	6.0	10.0	0.6	C322J393-40****	0.56	32.0	20.0	11.0	27.5	0.8	C322J564-B0****
0.0047	10.5	9.0	4.0	7.5	0.6	C322J472-30****	0.047	13.0	12.0	6.0	10.0	0.6	C322J473-40****	0.68	32.0	20.0	11.0	27.5	0.8	C322J684-B0****
0.0056	10.5	9.0	4.0	7.5	0.6	C322J562-30****	0.027	17.5	11.0	5.0	15.0	0.8	C322J273-60****	0.82	32.0	20.0	11.0	27.5	0.8	C322J824-B0****
0.0068	10.5	9.0	4.0	7.5	0.6	C322J682-30****	0.033	17.5	11.0	5.0	15.0	0.8	C322J333-60****	1.0	32.0	22.0	13.0	27.5	0.8	C322J105-B0****
0.0082	10.5	9.0	4.0	7.5	0.6	C322J822-30****	0.039	17.5	11.0	5.0	15.0	0.8	C322J393-60****	1.2	32.0	24.5	15.0	27.5	0.8	C322J125-B0****
0.010	10.5	9.0	4.0	7.5	0.6	C322J103-30****	0.047	17.5	11.0	5.0	15.0	0.8	C322J473-60****	1.5	32.0	28.0	14.0	27.5	0.8	C322J155-B0****
0.012	10.5	9.0	4.0	7.5	0.6	C322J123-30****	0.056	17.5	11.0	5.0	15.0	0.8	C322J563-60****	1.8	32.0	33.0	18.0	27.5	0.8	C322J185-B0****
0.015	10.5	11.0	5.0	7.5	0.6	C322J153-30****	0.068	17.5	12.0	6.0	15.0	0.8	C322J683-60****	2.2	32.0	33.0	18.0	27.5	0.8	C322J225-B0****
0.018	10.5	11.0	5.0	7.5	0.6	C322J183-30****	0.082	17.5	12.0	6.0	15.0	0.8	C322J823-60****	2.7	32.0	37.0	22.0	27.5	0.8	C322J275-B0****
0.022	10.5	11.0	5.0	7.5	0.6	C322J223-30****	0.10	17.5	13.5	7.5	15.0	0.8	C322J104-60****	3.3	32.0	37.0	22.0	27.5	0.8	C322J335-B0****

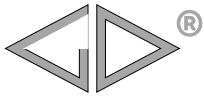
- 备注 Note: 1. “-” 表示容量偏差。 “ ” =capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
 2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code (refer to table 1).
 3. “@” 不用作跨线, 请参见抗干扰电容器(Page 109)。
 “@” Not suitable for across-the-line application. Pls refer to Interference Suppression Capacitors(Page 109).



■ 外形尺寸 Dimensions(mm)

1 000V(400Vac)							1 600V(600Vac)							2 000V(700Vac)							
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	
0.0010	13.0	9.0	4.0	10.0	0.6	C323A102-40****	0.00056	17.5	11.0	5.0	15.0	0.8	C323C561-60****	0.00056	17.5	11.0	5.0	15.0	0.8	C323D561-60****	
0.0012	13.0	9.0	4.0	10.0	0.6	C323A122-40****	0.00062	17.5	11.0	5.0	15.0	0.8	C323C621-60****	0.00062	17.5	11.0	5.0	15.0	0.8	C323D621-60****	
0.0015	13.0	9.0	4.0	10.0	0.6	C323A152-40****	0.00068	17.5	11.0	5.0	15.0	0.8	C323C681-60****	0.00068	17.5	11.0	5.0	15.0	0.8	C323D681-60****	
0.0018	13.0	9.0	4.0	10.0	0.6	C323A182-40****	0.00082	17.5	11.0	5.0	15.0	0.8	C323C821-60****	0.00082	17.5	11.0	5.0	15.0	0.8	C323D821-60****	
0.0022	13.0	9.0	4.0	10.0	0.6	C323A222-40****	0.0010	17.5	11.0	5.0	15.0	0.8	C323C102-60****	0.0010	17.5	11.0	5.0	15.0	0.8	C323D102-60****	
0.0027	13.0	9.0	4.0	10.0	0.6	C323A272-40****	0.0012	17.5	11.0	5.0	15.0	0.8	C323C122-60****	0.0012	17.5	11.0	5.0	15.0	0.8	C323D122-60****	
0.0033	13.0	9.0	4.0	10.0	0.6	C323A332-40****	0.0015	17.5	11.0	5.0	15.0	0.8	C323C152-60****	0.0015	17.5	11.0	5.0	15.0	0.8	C323D152-60****	
0.0039	13.0	9.0	4.0	10.0	0.6	C323A392-40****	0.0018	17.5	11.0	5.0	15.0	0.8	C323C182-60****	0.0018	17.5	11.0	5.0	15.0	0.8	C323D182-60****	
0.0047	13.0	11.0	5.0	10.0	0.6	C323A472-40****	0.0022	17.5	11.0	5.0	15.0	0.8	C323C222-60****	0.0022	17.5	11.0	5.0	15.0	0.8	C323D222-60****	
0.0056	13.0	11.0	5.0	10.0	0.6	C323A562-40****	0.0027	17.5	11.0	5.0	15.0	0.8	C323C272-60****	0.0027	17.5	11.0	5.0	15.0	0.8	C323D272-60****	
0.0068	13.0	11.0	5.0	10.0	0.6	C323A682-40****	0.0033	17.5	11.0	5.0	15.0	0.8	C323C332-60****	0.0033	17.5	11.0	5.0	15.0	0.8	C323D332-60****	
0.0082	13.0	12.0	6.0	10.0	0.6	C323A822-40****	0.0039	17.5	11.0	5.0	15.0	0.8	C323C392-60****	0.0039	17.5	11.0	5.0	15.0	0.8	C323D392-60****	
0.010	13.0	12.0	6.0	10.0	0.6	C323A103-40****	0.0047	17.5	11.0	5.0	15.0	0.8	C323C472-60****	0.0047	17.5	11.0	5.0	15.0	0.8	C323D472-60****	
0.0022	17.5	11.0	5.0	15.0	0.8	C323A222-60****	0.0056	17.5	11.0	5.0	15.0	0.8	C323C562-60****	0.0056	17.5	12.0	6.0	15.0	0.8	C323D562-60****	
0.0027	17.5	11.0	5.0	15.0	0.8	C323A272-60****	0.0068	17.5	11.0	5.0	15.0	0.8	C323C682-60****	0.0068	17.5	12.0	6.0	15.0	0.8	C323D682-60****	
0.0033	17.5	11.0	5.0	15.0	0.8	C323A332-60****	0.0082	17.5	12.0	6.0	15.0	0.8	C323C822-60****	0.0082	17.5	13.5	7.5	15.0	0.8	C323D822-60****	
0.0039	17.5	11.0	5.0	15.0	0.8	C323A392-60****	0.010	17.5	12.0	6.0	15.0	0.8	C323C103-60****	0.010	17.5	13.5	7.5	15.0	0.8	C323D103-60****	
0.0047	17.5	11.0	5.0	15.0	0.8	C323A472-60****	0.012	17.5	12.0	6.0	15.0	0.8	C323C123-60****	0.012	17.5	14.5	8.5	15.0	0.8	C323D123-60****	
0.0056	17.5	11.0	5.0	15.0	0.8	C323A562-60****	0.015	17.5	13.5	7.5	15.0	0.8	C323C153-60****	0.015	17.5	14.5	8.5	15.0	0.8	C323D153-60****	
0.0068	17.5	11.0	5.0	15.0	0.8	C323A682-60****	0.018	17.5	13.5	7.5	15.0	0.8	C323C183-60****	0.018	17.5	16.0	10.0	15.0	0.8	C323D183-60****	
0.0082	17.5	11.0	5.0	15.0	0.8	C323A822-60****	0.022	17.5	14.5	8.5	15.0	0.8	C323C223-60****	0.022	17.5	19.0	11.0	15.0	0.8	C323D223-60****	
0.010	17.5	11.0	5.0	15.0	0.8	C323A103-60****	0.027	17.5	16.0	10.0	15.0	0.8	C323C273-60****	0.0068	26.5	15.0	6.0	22.5	0.8	C323D682-90****	
0.012	17.5	11.0	5.0	15.0	0.8	C323A123-60****	0.033	17.5	16.0	10.0	15.0	0.8	C323C333-60****	0.0082	26.5	15.0	6.0	22.5	0.8	C323D822-90****	
0.015	17.5	12.0	6.0	15.0	0.8	C323A153-60****	0.039	17.5	19.0	11.0	15.0	0.8	C323C393-60****	0.010	26.5	15.0	6.0	22.5	0.8	C323D103-90****	
0.018	17.5	12.0	6.0	15.0	0.8	C323A183-60****	0.047	17.5	19.0	11.0	15.0	0.8	C323C473-60****	0.012	26.5	15.0	6.0	22.5	0.8	C323D123-90****	
0.022	17.5	13.5	7.5	15.0	0.8	C323A223-60****	0.015	26.5	15.0	6.0	22.5	0.8	C323C153-90****	0.015	26.5	15.0	6.0	22.5	0.8	C323D153-90****	
0.027	17.5	13.5	7.5	15.0	0.8	C323A273-60****	0.018	26.5	15.0	6.0	22.5	0.8	C323C183-90****	0.018	26.5	16.0	7.0	22.5	0.8	C323D183-90****	
0.033	17.5	14.5	8.5	15.0	0.8	C323A333-60****	0.022	26.5	15.0	6.0	22.5	0.8	C323C223-90****	0.022	26.5	17.0	8.5	22.5	0.8	C323D223-90****	
0.039	17.5	16.0	10.0	15.0	0.8	C323A393-60****	0.027	26.5	16.0	7.0	22.5	0.8	C323C273-90****	0.027	26.5	17.0	8.5	22.5	0.8	C323D273-90****	
0.047	17.5	16.0	10.0	15.0	0.8	C323A473-60****	0.033	26.5	16.0	7.0	22.5	0.8	C323C333-90****	0.033	26.5	18.5	10.0	22.5	0.8	C323D333-90****	
0.056	17.5	19.0	11.0	15.0	0.8	C323A563-60****	0.039	26.5	17.0	8.5	22.5	0.8	C323C393-90****	0.039	26.5	18.5	10.0	22.5	0.8	C323D393-90****	
0.068	17.5	19.0	11.0	15.0	0.8	C323A683-60****	0.047	26.5	18.5	10.0	22.5	0.8	C323C473-90****	0.047	26.5	22.0	12.0	22.5	0.8	C323D473-90****	
0.018	26.5	15.0	6.0	22.5	0.8	C323A183-90****	0.056	26.5	18.5	10.0	22.5	0.8	C323C563-90****	0.056	26.5	22.0	12.0	22.5	0.8	C323D563-90****	
0.022	26.5	15.0	6.0	22.5	0.8	C323A223-90****	0.068	26.5	22.0	12.0	22.5	0.8	C323C683-90****								
0.027	26.5	15.0	6.0	22.5	0.8	C323A273-90****	0.082	26.5	22.0	12.0	22.5	0.8	C323C823-90****								
0.033	26.5	15.0	6.0	22.5	0.8	C323A333-90****	0.10	26.5	22.0	12.0	22.5	0.8	C323C104-90****								
0.039	26.5	15.0	6.0	22.5	0.8	C323A393-90****															
0.047	26.5	16.0	7.0	22.5	0.8	C323A473-90****															
0.056	26.5	16.0	7.0	22.5	0.8	C323A563-90****															
0.068	26.5	17.0	8.5	22.5	0.8	C323A683-90****															
0.082	26.5	17.0	8.5	22.5	0.8	C323A823-90****															
0.10	26.5	18.5	10.0	22.5	0.8	C323A104-90****															
0.12	26.5	22.0	12.0	22.5	0.8	C323A124-90****															
0.15	26.5	22.0	12.0	22.5	0.8	C323A154-90****															

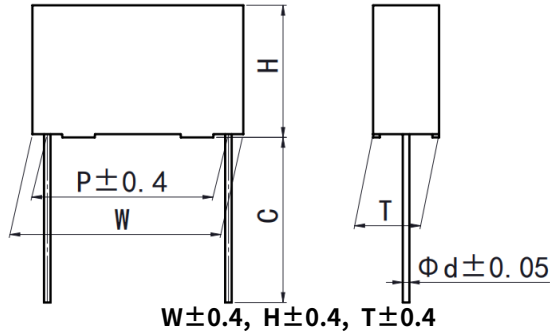
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).



C33
MKP23 series

金属化聚丙烯膜电容器 Metallized polypropylene film capacitor (Box-type)

外形图 Outline Drawing



特点

- 高频损耗小
- 内部温升小，耐高温
- 塑料外壳 (UL94 V-0)，阻燃环氧填充

主要用途

- 高压、大电流的脉冲电路
- 电子照明 (如电子镇流器、E-HID)
- 高频交流负荷

Features

- Low loss at high frequency
- Small inherent temperature rise, high temperature range
- Plastic case (UL94 V-0), epoxy resin sealing

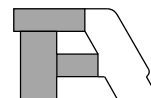
Typical Applications

- Pulse applications with high A.C. voltage and high current
- Electric lighting (i.e. electric ballast, E-HID)
- High-frequency A.C. loads

技术要求 Specifications

引用标准 Reference Standard	GB/T 14579 (IEC 60384-17)				
气候类别 Climatic Category	55/125/56				
额定温度 Rated Temperature	105°C				
工作温度 Operating Temperature Range	-55°C~125°C (+105°C to +125°C: decreasing factor 1.25% per °C for U _R)				
电容量范围 Capacitance Range	0.00047μF~0.15μF				
电容量偏差 Capacitance Tolerance	±3%(H), ±5%(J), ±10%(K)				
耐电压 Voltage Proof	1.6U _R (5s)				
损耗角正切 Dissipation Factor	≤10×10 ⁻⁴ (20°C, 1kHz)				
绝缘电阻 Insulation Resistance	≥100 000MΩ (20°C, 100V, 1min)				
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)			
			P=7.5	P=10.0	P=15.0
	400	3000	2200	2 000	800
	500	4000	3000	2500	1 200
	600	6500	6000	4500	1 800
	700	-	9 800	9500	4500
900	-	-	10000	6000	

U _R	400Vac		500Vac		600Vac		700Vac		900Vac
P (mm)	7.5	>7.5	7.5	>7.5	≤10.0	>10.0	10.0	>10.0	-
Vdc(V)	1 000	1 300	1 300	1 400	1 400	1 600	1 600	2 000	2 500



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

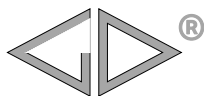
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	3												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C33= MKP23		C33= MKP23
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	G2=400V H2=500V U1=600V V1=700V X1=900V		G2=400V H2=500V U1=600V V1=700V X1=900V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	H=±3%, J=±5%, K=±10%		H=±3%, J=±5%, K=±10%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm		3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)
		4	F=10.0mm			5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
		6	F=15.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



C33

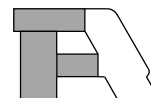
MKP23 series

■ 外形尺寸 Dimensions(mm)

400Vac						
C _N (μF)	W	H	T	P	d	Part number
0.00082	10.5	9.0	4.0	7.5	0.6	C33G2821-30****
0.0010	10.5	9.0	4.0	7.5	0.6	C33G2102-30****
0.0012	10.5	9.0	4.0	7.5	0.6	C33G2122-30****
0.0015	10.5	9.0	4.0	7.5	0.6	C33G2152-30****
0.0018	10.5	9.0	4.0	7.5	0.6	C33G2182-30****
0.0022	10.5	9.0	4.0	7.5	0.6	C33G2222-30****
0.0027	10.5	9.0	4.0	7.5	0.6	C33G2272-30****
0.0033	10.5	9.0	4.0	7.5	0.6	C33G2332-30****
0.0036	10.5	9.0	4.0	7.5	0.6	C33G2362-30****
0.0039	10.5	9.0	4.0	7.5	0.6	C33G2392-30****
0.0047	10.5	9.0	4.0	7.5	0.6	C33G2472-30****
0.0056	10.5	11.0	5.0	7.5	0.6	C33G2562-30****
0.0068	10.5	11.0	5.0	7.5	0.6	C33G2682-30****
0.0082	10.5	11.0	5.0	7.5	0.6	C33G2822-30****
0.010	10.5	12.0	6.0	7.5	0.6	C33G2103-30****
0.012	10.5	12.0	6.0	7.5	0.6	C33G2123-30****
0.0010	13.0	9.0	4.0	10.0	0.6	C33G2102-40****
0.0012	13.0	9.0	4.0	10.0	0.6	C33G2122-40****
0.0015	13.0	9.0	4.0	10.0	0.6	C33G2152-40****
0.0018	13.0	9.0	4.0	10.0	0.6	C33G2182-40****
0.0022	13.0	9.0	4.0	10.0	0.6	C33G2222-40****
0.0027	13.0	9.0	4.0	10.0	0.6	C33G2272-40****
0.0033	13.0	9.0	4.0	10.0	0.6	C33G2332-40****
0.0039	13.0	9.0	4.0	10.0	0.6	C33G2392-40****
0.0047	13.0	11.0	5.0	10.0	0.6	C33G2472-40****
0.0056	13.0	11.0	5.0	10.0	0.6	C33G2562-40****
0.0068	13.0	11.0	5.0	10.0	0.6	C33G2682-40****
0.0082	13.0	12.0	6.0	10.0	0.6	C33G2822-40****
0.010	13.0	12.0	6.0	10.0	0.6	C33G2103-40****

400Vac						
C _N (μF)	W	H	T	P	d	Part number
0.0022	17.5	11.0	5.0	15.0	0.8	C33G2222-60****
0.0027	17.5	11.0	5.0	15.0	0.8	C33G2272-60****
0.0033	17.5	11.0	5.0	15.0	0.8	C33G2332-60****
0.0039	17.5	11.0	5.0	15.0	0.8	C33G2392-60****
0.0047	17.5	11.0	5.0	15.0	0.8	C33G2472-60****
0.0056	17.5	11.0	5.0	15.0	0.8	C33G2562-60****
0.0068	17.5	11.0	5.0	15.0	0.8	C33G2682-60****
0.0082	17.5	11.0	5.0	15.0	0.8	C33G2822-60****
0.010	17.5	11.0	5.0	15.0	0.8	C33G2103-60****
0.012	17.5	11.0	5.0	15.0	0.8	C33G2123-60****
0.015	17.5	12.0	6.0	15.0	0.8	C33G2153-60****
0.018	17.5	12.0	6.0	15.0	0.8	C33G2183-60****
0.022	17.5	13.5	7.5	15.0	0.8	C33G2223-60****
0.027	17.5	13.5	7.5	15.0	0.8	C33G2273-60****
0.033	17.5	14.5	8.5	15.0	0.8	C33G2333-60****
0.039	17.5	16.0	10.0	15.0	0.8	C33G2393-60****
0.047	17.5	16.0	10.0	15.0	0.8	C33G2473-60****
0.056	17.5	19.0	11.0	15.0	0.8	C33G2563-60****
0.068	17.5	19.0	11.0	15.0	0.8	C33G2683-60****
0.018	26.5	15.0	6.0	22.5	0.8	C33G2183-90****
0.022	26.5	15.0	6.0	22.5	0.8	C33G2223-90****
0.027	26.5	15.0	6.0	22.5	0.8	C33G2273-90****
0.033	26.5	15.0	6.0	22.5	0.8	C33G2333-90****
0.039	26.5	15.0	6.0	22.5	0.8	C33G2393-90****
0.047	26.5	16.0	7.0	22.5	0.8	C33G2473-90****
0.056	26.5	16.0	7.0	22.5	0.8	C33G2563-90****
0.068	26.5	17.0	8.5	22.5	0.8	C33G2683-90****
0.082	26.5	17.0	8.5	22.5	0.8	C33G2823-90****
0.10	26.5	18.5	10.0	22.5	0.8	C33G2104-90****
0.12	26.5	22.0	12.0	22.5	0.8	C33G2124-90****
0.15	26.5	22.0	12.0	22.5	0.8	C33G2154-90****

备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%。
 2. “****” 表示引线加工和包装代码(见表1)。“****” =lead form and packing code (refer to table 1).

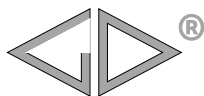


■ 外形尺寸 Dimensions(mm)

500Vac						
C _N (μF)	W	H	T	P	d	Part number
0.00056	10.5	9.0	4.0	7.5	0.6	C33H2561-3S****
0.00062	10.5	9.0	4.0	7.5	0.6	C33H2621-3S****
0.00068	10.5	9.0	4.0	7.5	0.6	C33H2681-3S****
0.00082	10.5	9.0	4.0	7.5	0.6	C33H2821-3S****
0.0010	10.5	9.0	4.0	7.5	0.6	C33H2102-3S****
0.0012	10.5	9.0	4.0	7.5	0.6	C33H2122-3S****
0.0015	10.5	9.0	4.0	7.5	0.6	C33H2152-3S****
0.0018	10.5	9.0	4.0	7.5	0.6	C33H2182-3S****
0.0022	10.5	11.0	5.0	7.5	0.6	C33H2222-3S****
0.0027	10.5	11.0	5.0	7.5	0.6	C33H2272-3S****
0.0033	10.5	11.0	5.0	7.5	0.6	C33H2332-3S****
0.0036	10.5	12.0	6.0	7.5	0.6	C33H2362-3S****
0.0039	10.5	12.0	6.0	7.5	0.6	C33H2392-3S****
0.0047	10.5	12.0	6.0	7.5	0.6	C33H2472-3S****
0.0056	10.5	12.0	6.0	7.5	0.6	C33H2562-3S****
0.0010	13.0	9.0	4.0	10.0	0.6	C33H2102-4S****
0.0012	13.0	9.0	4.0	10.0	0.6	C33H2122-4S****
0.0015	13.0	9.0	4.0	10.0	0.6	C33H2152-4S****
0.0018	13.0	9.0	4.0	10.0	0.6	C33H2182-4S****
0.0022	13.0	9.0	4.0	10.0	0.6	C33H2222-4S****
0.0027	13.0	9.0	4.0	10.0	0.6	C33H2272-4S****
0.0030	13.0	9.0	4.0	10.0	0.6	C33H2302-4S****
0.0033	13.0	9.0	4.0	10.0	0.6	C33H2332-4S****
0.0039	13.0	11.0	5.0	10.0	0.6	C33H2392-4S****
0.0047	13.0	11.0	5.0	10.0	0.6	C33H2472-4S****
0.0056	13.0	11.0	5.0	10.0	0.6	C33H2562-4S****
0.0068	13.0	12.0	6.0	10.0	0.6	C33H2682-4S****
0.0082	13.0	12.0	6.0	10.0	0.6	C33H2822-4S****
0.010	13.0	13.0	7.0	10.0	0.6	C33H2103-4S****
0.012	13.0	14.0	8.0	10.0	0.6	C33H2123-4S****

500Vac						
C _N (μF)	W	H	T	P	d	Part number
0.0033	17.5	11.0	5.0	15.0	0.8	C33H2332-6S****
0.0036	17.5	11.0	5.0	15.0	0.8	C33H2362-6S****
0.0039	17.5	11.0	5.0	15.0	0.8	C33H2392-6S****
0.0047	17.5	11.0	5.0	15.0	0.8	C33H2472-6S****
0.0056	17.5	11.0	5.0	15.0	0.8	C33H2562-6S****
0.0068	17.5	11.0	5.0	15.0	0.8	C33H2682-6S****
0.0082	17.5	11.0	5.0	15.0	0.8	C33H2822-6S****
0.010	17.5	11.0	5.0	15.0	0.8	C33H2103-6S****
0.012	17.5	12.0	6.0	15.0	0.8	C33H2123-6S****
0.015	17.5	12.0	6.0	15.0	0.8	C33H2153-6S****
0.018	17.5	13.5	7.5	15.0	0.8	C33H2183-6S****
0.022	17.5	13.5	7.5	15.0	0.8	C33H2223-6S****
0.027	17.5	13.5	7.5	15.0	0.8	C33H2273-6S****
0.030	17.5	14.5	8.5	15.0	0.8	C33H2303-6S****
0.033	17.5	16.0	10.0	15.0	0.8	C33H2333-6S****
0.036	17.5	16.0	10.0	15.0	0.8	C33H2363-6S****
0.039	17.5	16.0	10.0	15.0	0.8	C33H2393-6S****
0.047	17.5	19.0	11.0	15.0	0.8	C33H2473-6S****
0.056	17.5	19.0	11.0	15.0	0.8	C33H2563-6S****
0.010	26.5	15.0	6.0	22.5	0.8	C33H2103-9S****
0.012	26.5	15.0	6.0	22.5	0.8	C33H2123-9S****
0.015	26.5	15.0	6.0	22.5	0.8	C33H2153-9S****
0.018	26.5	15.0	6.0	22.5	0.8	C33H2183-9S****
0.022	26.5	15.0	6.0	22.5	0.8	C33H2223-9S****
0.027	26.5	15.0	6.0	22.5	0.8	C33H2273-9S****
0.033	26.5	16.0	7.0	22.5	0.8	C33H2333-9S****
0.036	26.5	16.0	7.0	22.5	0.8	C33H2363-9S****
0.039	26.5	16.0	7.0	22.5	0.8	C33H2393-9S****
0.047	26.5	17.0	8.5	22.5	0.8	C33H2473-9S****
0.056	26.5	17.0	8.5	22.5	0.8	C33H2563-9S****
0.068	26.5	18.5	10.0	22.5	0.8	C33H2683-9S****
0.082	26.5	18.5	10.0	22.5	0.8	C33H2823-9S****
0.10	26.5	22.0	12.0	22.5	0.8	C33H2104-9S****
0.12	26.5	22.0	12.0	22.5	0.8	C33H2124-9S****

备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%。
2. “****” 表示引线加工和包装代码(见表1)。“****” =lead form and packing code (refer to table 1).

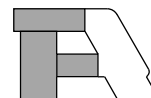


■ 外形尺寸 Dimensions(mm)

600Vac						
C _N (μF)	W	H	T	P	d	Part number
0.00047	10.5	9.0	4.0	7.5	0.6	C33U1471-30****
0.00056	10.5	9.0	4.0	7.5	0.6	C33U1561-30****
0.00062	10.5	9.0	4.0	7.5	0.6	C33U1621-30****
0.00068	10.5	9.0	4.0	7.5	0.6	C33U1681-30****
0.00082	10.5	9.0	4.0	7.5	0.6	C33U1821-30****
0.0010	10.5	9.0	4.0	7.5	0.6	C33U1102-30****
0.0012	10.5	9.0	4.0	7.5	0.6	C33U1122-30****
0.0015	10.5	9.0	4.0	7.5	0.6	C33U1152-30****
0.0018	10.5	11.0	5.0	7.5	0.6	C33U1182-30****
0.0022	10.5	11.0	5.0	7.5	0.6	C33U1222-30****
0.0027	10.5	11.0	5.0	7.5	0.6	C33U1272-30****
0.0033	10.5	12.0	6.0	7.5	0.6	C33U1332-30****
0.0036	10.5	12.0	6.0	7.5	0.6	C33U1362-30****
0.0039	10.5	12.0	6.0	7.5	0.6	C33U1392-30****
0.0047	10.5	12.0	6.0	7.5	0.6	C33U1472-30****
0.00056	13.0	9.0	4.0	10.0	0.6	C33U1561-40****
0.00062	13.0	9.0	4.0	10.0	0.6	C33U1621-40****
0.00068	13.0	9.0	4.0	10.0	0.6	C33U1681-40****
0.00082	13.0	9.0	4.0	10.0	0.6	C33U1821-40****
0.0010	13.0	9.0	4.0	10.0	0.6	C33U1102-40****
0.0011	13.0	9.0	4.0	10.0	0.6	C33U1112-40****
0.0012	13.0	9.0	4.0	10.0	0.6	C33U1122-40****
0.0013	13.0	9.0	4.0	10.0	0.6	C33U1132-40****
0.0015	13.0	9.0	4.0	10.0	0.6	C33U1152-40****
0.0017	13.0	9.0	4.0	10.0	0.6	C33U1172-40****
0.0018	13.0	9.0	4.0	10.0	0.6	C33U1182-40****
0.0020	13.0	9.0	4.0	10.0	0.6	C33U1202-40****
0.0022	13.0	9.0	4.0	10.0	0.6	C33U1222-40****
0.0027	13.0	9.0	4.0	10.0	0.6	C33U1272-40****
0.0030	13.0	9.0	4.0	10.0	0.6	C33U1302-40****
0.0033	13.0	9.0	4.0	10.0	0.6	C33U1332-40****
0.0036	13.0	11.0	5.0	10.0	0.6	C33U1362-40****
0.0039	13.0	11.0	5.0	10.0	0.6	C33U1392-40****
0.0047	13.0	11.0	5.0	10.0	0.6	C33U1472-40****
0.0056	13.0	11.0	5.0	10.0	0.6	C33U1562-40****
0.0068	13.0	12.0	6.0	10.0	0.6	C33U1682-40****

600Vac						
C _N (μF)	W	H	T	P	d	Part number
0.0082	13.0	12.0	6.0	10.0	0.6	C33U1822-40****
0.010	13.0	13.0	7.0	10.0	0.6	C33U1103-40****
0.012	13.0	14.0	8.0	10.0	0.6	C33U1123-40****
0.0010	17.5	11.0	5.0	15.0	0.8	C33U1102-60****
0.0012	17.5	11.0	5.0	15.0	0.8	C33U1122-60****
0.0015	17.5	11.0	5.0	15.0	0.8	C33U1152-60****
0.0018	17.5	11.0	5.0	15.0	0.8	C33U1182-60****
0.0022	17.5	11.0	5.0	15.0	0.8	C33U1222-60****
0.0027	17.5	11.0	5.0	15.0	0.8	C33U1272-60****
0.0033	17.5	11.0	5.0	15.0	0.8	C33U1332-60****
0.0039	17.5	11.0	5.0	15.0	0.8	C33U1392-60****
0.0047	17.5	11.0	5.0	15.0	0.8	C33U1472-60****
0.0056	17.5	11.0	5.0	15.0	0.8	C33U1562-60****
0.0068	17.5	11.0	5.0	15.0	0.8	C33U1682-60****
0.0082	17.5	12.0	6.0	15.0	0.8	C33U1822-60****
0.010	17.5	12.0	6.0	15.0	0.8	C33U1103-60****
0.012	17.5	12.0	6.0	15.0	0.8	C33U1123-60****
0.015	17.5	13.5	7.5	15.0	0.8	C33U1153-60****
0.018	17.5	13.5	7.5	15.0	0.8	C33U1183-60****
0.022	17.5	14.5	8.5	15.0	0.8	C33U1223-60****
0.027	17.5	16.0	10.0	15.0	0.8	C33U1273-60****
0.033	17.5	16.0	10.0	15.0	0.8	C33U1333-60****
0.039	17.5	19.0	11.0	15.0	0.8	C33U1393-60****
0.047	17.5	19.0	11.0	15.0	0.8	C33U1473-60****
0.015	26.5	15.0	6.0	22.5	0.8	C33U1153-90****
0.018	26.5	15.0	6.0	22.5	0.8	C33U1183-90****
0.022	26.5	15.0	6.0	22.5	0.8	C33U1223-90****
0.027	26.5	16.0	7.0	22.5	0.8	C33U1273-90****
0.033	26.5	16.0	7.0	22.5	0.8	C33U1333-90****
0.039	26.5	17.0	8.5	22.5	0.8	C33U1393-90****
0.047	26.5	18.5	10.0	22.5	0.8	C33U1473-90****
0.056	26.5	18.5	10.0	22.5	0.8	C33U1563-90****
0.068	26.5	22.0	12.0	22.5	0.8	C33U1683-90****
0.082	26.5	22.0	12.0	22.5	0.8	C33U1823-90****
0.10	26.5	22.0	12.0	22.5	0.8	C33U1104-90****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).

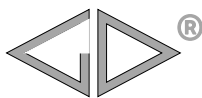


■ 外形尺寸 Dimensions(mm)

700Vac						
C _N (μF)	W	H	T	P	d	Part number
0.00056	13.0	9.0	4.0	10.0	0.6	C33V1561-40****
0.00062	13.0	9.0	4.0	10.0	0.6	C33V1621-40****
0.00068	13.0	9.0	4.0	10.0	0.6	C33V1681-40****
0.00082	13.0	9.0	4.0	10.0	0.6	C33V1821-40****
0.0010	13.0	9.0	4.0	10.0	0.6	C33V1102-40****
0.0012	13.0	9.0	4.0	10.0	0.6	C33V1122-40****
0.0015	13.0	11.0	5.0	10.0	0.6	C33V1152-40****
0.0018	13.0	11.0	5.0	10.0	0.6	C33V1182-40****
0.0022	13.0	11.0	5.0	10.0	0.6	C33V1222-40****
0.0027	13.0	11.0	5.0	10.0	0.6	C33V1272-40****
0.0033	13.0	12.0	6.0	10.0	0.6	C33V1332-40****
0.0036	13.0	12.0	6.0	10.0	0.6	C33V1362-40****
0.0039	13.0	12.0	6.0	10.0	0.6	C33V1392-40****
0.0047	13.0	13.0	7.0	10.0	0.6	C33V1472-40****
0.0056	13.0	13.0	7.0	10.0	0.6	C33V1562-40****
0.0068	13.0	14.0	8.0	10.0	0.6	C33V1682-40****
0.0082	13.0	14.0	8.0	10.0	0.6	C33V1822-40****
0.00056	17.5	11.0	5.0	15.0	0.8	C33V1561-60****
0.00062	17.5	11.0	5.0	15.0	0.8	C33V1621-60****
0.00068	17.5	11.0	5.0	15.0	0.8	C33V1681-60****
0.00082	17.5	11.0	5.0	15.0	0.8	C33V1821-60****
0.0010	17.5	11.0	5.0	15.0	0.8	C33V1102-60****
0.0012	17.5	11.0	5.0	15.0	0.8	C33V1122-60****
0.0015	17.5	11.0	5.0	15.0	0.8	C33V1152-60****
0.0018	17.5	11.0	5.0	15.0	0.8	C33V1182-60****
0.0022	17.5	11.0	5.0	15.0	0.8	C33V1222-60****
0.0027	17.5	11.0	5.0	15.0	0.8	C33V1272-60****
0.0033	17.5	11.0	5.0	15.0	0.8	C33V1332-60****
0.0039	17.5	11.0	5.0	15.0	0.8	C33V1392-60****
0.0047	17.5	11.0	5.0	15.0	0.8	C33V1472-60****
0.0056	17.5	12.0	6.0	15.0	0.8	C33V1562-60****
0.0068	17.5	12.0	6.0	15.0	0.8	C33V1682-60****
0.0082	17.5	13.5	7.5	15.0	0.8	C33V1822-60****
0.010	17.5	13.5	7.5	15.0	0.8	C33V1103-60****
0.012	17.5	14.5	8.5	15.0	0.8	C33V1123-60****
0.015	17.5	14.5	8.5	15.0	0.8	C33V1153-60****
0.018	17.5	16.0	10.0	15.0	0.8	C33V1183-60****
0.022	17.5	19.0	11.0	15.0	0.8	C33V1223-60****
0.0068	26.5	15.0	6.0	22.5	0.8	C33V1682-90****
0.0082	26.5	15.0	6.0	22.5	0.8	C33V1822-90****
0.010	26.5	15.0	6.0	22.5	0.8	C33V1103-90****
0.012	26.5	15.0	6.0	22.5	0.8	C33V1123-90****
0.015	26.5	15.0	6.0	22.5	0.8	C33V1153-90****
0.018	26.5	16.0	7.0	22.5	0.8	C33V1183-90****
0.022	26.5	17.0	8.5	22.5	0.8	C33V1223-90****
0.027	26.5	17.0	8.5	22.5	0.8	C33V1273-90****
0.033	26.5	18.5	10.0	22.5	0.8	C33V1333-90****
0.039	26.5	18.5	10.0	22.5	0.8	C33V1393-90****
0.047	26.5	22.0	12.0	22.5	0.8	C33V1473-90****
0.056	26.5	22.0	12.0	22.5	0.8	C33V1563-90****

900Vac						
C _N (μF)	W	H	T	P	d	Part number
0.00056	17.5	11.0	5.0	15.0	0.8	C33X1561-60****
0.00068	17.5	11.0	5.0	15.0	0.8	C33X1681-60****
0.00082	17.5	11.0	5.0	15.0	0.8	C33X1821-60****
0.0010	17.5	11.0	5.0	15.0	0.8	C33X1102-60****
0.0012	17.5	11.0	5.0	15.0	0.8	C33X1122-60****
0.0015	17.5	11.0	5.0	15.0	0.8	C33X1152-60****
0.0018	17.5	11.0	5.0	15.0	0.8	C33X1182-60****
0.0022	17.5	11.0	5.0	15.0	0.8	C33X1222-60****
0.0027	17.5	11.0	5.0	15.0	0.8	C33X1272-60****
0.0033	17.5	11.0	5.0	15.0	0.8	C33X1332-60****
0.0039	17.5	12.0	6.0	15.0	0.8	C33X1392-60****
0.0047	17.5	12.0	6.0	15.0	0.8	C33X1472-60****
0.0056	17.5	12.0	6.0	15.0	0.8	C33X1562-60****
0.0068	17.5	13.5	7.5	15.0	0.8	C33X1682-60****
0.0082	17.5	13.5	7.5	15.0	0.8	C33X1822-60****
0.010	17.5	14.5	8.5	15.0	0.8	C33X1103-60****
0.012	17.5	16.0	10.0	15.0	0.8	C33X1123-60****
0.015	17.5	16.0	10.0	15.0	0.8	C33X1153-60****
0.018	17.5	19.0	11.0	15.0	0.8	C33X1183-60****
0.0022	26.5	15.0	6.0	22.5	0.8	C33X1222-90****
0.0027	26.5	15.0	6.0	22.5	0.8	C33X1272-90****
0.0033	26.5	15.0	6.0	22.5	0.8	C33X1332-90****
0.0039	26.5	15.0	6.0	22.5	0.8	C33X1392-90****
0.0047	26.5	15.0	6.0	22.5	0.8	C33X1472-90****
0.0056	26.5	15.0	6.0	22.5	0.8	C33X1562-90****
0.0068	26.5	15.0	6.0	22.5	0.8	C33X1682-90****
0.0082	26.5	15.0	6.0	22.5	0.8	C33X1822-90****
0.010	26.5	16.0	7.0	22.5	0.8	C33X1103-90****
0.012	26.5	16.0	7.0	22.5	0.8	C33X1123-90****
0.015	26.5	17.0	8.5	22.5	0.8	C33X1153-90****
0.018	26.5	18.5	10.0	22.5	0.8	C33X1183-90****
0.022	26.5	18.5	10.0	22.5	0.8	C33X1223-90****
0.027	26.5	22.0	12.0	22.5	0.8	C33X1273-90****
0.033	26.5	22.0	12.0	22.5	0.8	C33X1333-90****

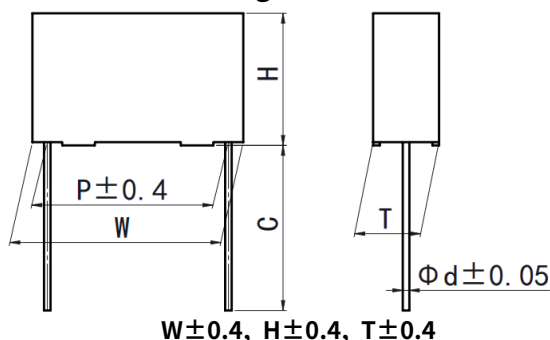
备注 Note: 1. “-”表示容量偏差。 “.”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).



C82
MMKP82 series

塑料外壳双面金属化聚丙烯膜电容器 Double sided metallized polypropylene film capacitor (Box-type)

外形图 Outline Drawing



特点

- 双面金属化聚丙烯膜
- 损耗小，内部温升小
- 负电容量温度系数
- 优异的阻燃性能

主要用途

- 广泛应用于高压高频脉冲电路中
- 电子镇流器和节能灯中
- 吸收和 SCR 整流电路

Features

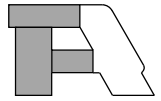
- Doublesided metallized polypropylene film
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Excellent active and passive flame resistant abilities

Typical Applications

- Widely used in high voltage, high frequency and pulse circuit
- Electronic ballasts and compact lamps
- SNUBBER and SCR commutating circuits

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)					
气候类别 Climatic Category	40/105/56					
额定温度 Rated Temperature	85°C for U_R (dc); 75°C for U_R (ac)					
工作温度 Operating Temperature Range	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R (dc)) (+75°C to +105°C: decreasing factor 1.35% per °C for U_R (ac))					
额定电压 Rated Voltage	250V, 400V, 630V, 1 000V, 1 600V, 2 000V					
电容量范围 Capacitance Range	0.00022μF~3.9μF					
电容量偏差 Capacitance Tolerance	±2%(G), ±3%(H), ±5%(J), ±10%(K), ±20%(M)					
耐电压 Voltage Proof	1.6 U_R (5s)					
损耗角正切 Dissipation Factor	≤10×10 ⁻⁴ (20°C, 1kHz)					
绝缘电阻 Insulation Resistance	R≥100 000MΩ, C_N ≤0.33μF RC _N ≥30 000s, C_N >0.33μF (20°C, 100V, 1min)					
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt(V/μs)				
		P=7.5	P=10.0	P=15.0	P=22.5	P=27.5
	250	1200	1000	550	250	200
	400	1800	1500	900	500	300
	630	3200	3200	2500	1500	900
	1000	6000	6000	3300	2100	1000
1600	-	-	6000	3000	2000	
2000	-	-	10000	5000	2200	



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

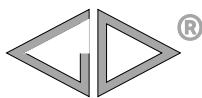
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	8	2												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C82= MMKP82		C82= MMKP82
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2E=250V 2G=400V 2J=630V		2E=250V 2G=400V 2J=630V
	3A=1000V 3C=1600V 3D=2000V		3A=1000V 3C=1600V 3D=2000V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	G=±2%, H=±3%, J=±5%		G=±2%, H=±3%, J=±5%
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm		3=7.5mm 4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm		9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap. among two consecutive holes P3=12.7mm, H=18.5mm (For pitch=7.5mm)
		4	F=10.0mm			5	P3=25.4mm; H=18.5mm (For pitch=10/15mm) (Detail parameter refer to page 16)
		6	F=15.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		00	标准的引线长度(18mm~26mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



■ 外形尺寸 Dimensions(mm)

250Vdc (180Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.0068	10.5	9.0	4.0	7.5	0.6	C822E682-30****
0.0082	10.5	9.0	4.0	7.5	0.6	C822E822-30****
0.010	10.5	9.0	4.0	7.5	0.6	C822E103-30****
0.012	10.5	9.0	4.0	7.5	0.6	C822E123-30****
0.015	10.5	9.0	4.0	7.5	0.6	C822E153-30****
0.018	10.5	9.0	4.0	7.5	0.6	C822E183-30****
0.022	10.5	9.0	4.0	7.5	0.6	C822E223-30****
0.027	10.5	11.0	5.0	7.5	0.6	C822E273-30****
0.033	10.5	11.0	5.0	7.5	0.6	C822E333-30****
0.039	10.5	12.0	6.0	7.5	0.6	C822E393-30****
0.047	10.5	12.0	6.0	7.5	0.6	C822E473-30****
0.027	13.0	9.0	4.0	10.0	0.6	C822E273-40****
0.033	13.0	9.0	4.0	10.0	0.6	C822E333-40****
0.039	13.0	9.0	4.0	10.0	0.6	C822E393-40****
0.047	13.0	11.0	5.0	10.0	0.6	C822E473-40****
0.056	13.0	11.0	5.0	10.0	0.6	C822E563-40****
0.068	13.0	12.0	6.0	10.0	0.6	C822E683-40****
0.082	13.0	12.0	6.0	10.0	0.6	C822E823-40****
0.068	17.5	11.0	5.0	15.0	0.8	C822E683-60****
0.082	17.5	11.0	5.0	15.0	0.8	C822E823-60****
0.10	17.5	11.0	5.0	15.0	0.8	C822E104-60****
0.12	17.5	12.0	6.0	15.0	0.8	C822E124-60****
0.15	17.5	12.0	6.0	15.0	0.8	C822E154-60****
0.18	17.5	13.5	7.5	15.0	0.8	C822E184-60****
0.22	17.5	13.5	7.5	15.0	0.8	C822E224-60****
0.27	17.5	14.5	8.5	15.0	0.8	C822E274-60****
0.33	17.5	16.0	10.0	15.0	0.8	C822E334-60****
0.39	17.5	16.0	10.0	15.0	0.8	C822E394-60****
0.22	26.5	15.0	6.0	22.5	0.8	C822E224-90****
0.27	26.5	15.0	6.0	22.5	0.8	C822E274-90****
0.33	26.5	15.0	6.0	22.5	0.8	C822E334-90****
0.39	26.5	16.0	7.0	22.5	0.8	C822E394-90****
0.47	26.5	16.0	7.0	22.5	0.8	C822E474-90****
0.56	26.5	17.0	8.5	22.5	0.8	C822E564-90****
0.68	26.5	18.5	10.0	22.5	0.8	C822E684-90****
0.82	26.5	18.5	10.0	22.5	0.8	C822E824-90****
1.0	26.5	22.0	12.0	22.5	0.8	C822E105-90****
0.82	32.0	18.0	9.0	27.5	0.8	C822E824-B0****
1.0	32.0	20.0	11.0	27.5	0.8	C822E105-B0****
1.2	32.0	20.0	11.0	27.5	0.8	C822E125-B0****
1.5	32.0	22.0	13.0	27.5	0.8	C822E155-B0****
1.8	32.0	24.5	15.0	27.5	0.8	C822E185-B0****
2.2	32.0	24.5	15.0	27.5	0.8	C822E225-B0****
2.7	32.0	33.0	18.0	27.5	0.8	C822E275-B0****
3.3	32.0	33.0	18.0	27.5	0.8	C822E335-B0****
3.9	32.0	33.0	18.0	27.5	0.8	C822E395-B0****

400Vdc (250Vac) [@]						
C _N (μF)	W	H	T	P	d	Part number
0.0027	10.5	9.0	4.0	7.5	0.6	C822G272-30****
0.0033	10.5	9.0	4.0	7.5	0.6	C822G332-30****
0.0039	10.5	9.0	4.0	7.5	0.6	C822G392-30****
0.0047	10.5	9.0	4.0	7.5	0.6	C822G472-30****
0.0056	10.5	9.0	4.0	7.5	0.6	C822G562-30****
0.0068	10.5	9.0	4.0	7.5	0.6	C822G682-30****
0.0082	10.5	9.0	4.0	7.5	0.6	C822G822-30****
0.010	10.5	9.0	4.0	7.5	0.6	C822G103-30****
0.012	10.5	9.0	4.0	7.5	0.6	C822G123-30****
0.015	10.5	11.0	5.0	7.5	0.6	C822G153-30****
0.018	10.5	11.0	5.0	7.5	0.6	C822G183-30****
0.022	10.5	12.0	6.0	7.5	0.6	C822G223-30****
0.027	10.5	12.0	6.0	7.5	0.6	C822G273-30****
0.010	13.0	9.0	4.0	10.0	0.6	C822G103-40****
0.012	13.0	9.0	4.0	10.0	0.6	C822G123-40****
0.015	13.0	9.0	4.0	10.0	0.6	C822G153-40****
0.018	13.0	9.0	4.0	10.0	0.6	C822G183-40****
0.022	13.0	9.0	4.0	10.0	0.6	C822G223-40****
0.027	13.0	11.0	5.0	10.0	0.6	C822G273-40****
0.033	13.0	11.0	5.0	10.0	0.6	C822G333-40****
0.039	13.0	12.0	6.0	10.0	0.6	C822G393-40****
0.047	13.0	12.0	6.0	10.0	0.6	C822G473-40****
0.033	17.5	11.0	5.0	15.0	0.8	C822G333-60****
0.039	17.5	11.0	5.0	15.0	0.8	C822G393-60****
0.047	17.5	11.0	5.0	15.0	0.8	C822G473-60****
0.056	17.5	11.0	5.0	15.0	0.8	C822G563-60****
0.068	17.5	12.0	6.0	15.0	0.8	C822G683-60****
0.082	17.5	12.0	6.0	15.0	0.8	C822G823-60****
0.10	17.5	13.5	7.5	15.0	0.8	C822G104-60****
0.12	17.5	13.5	7.5	15.0	0.8	C822G124-60****
0.15	17.5	14.5	8.5	15.0	0.8	C822G154-60****
0.18	17.5	16.0	10.0	15.0	0.8	C822G184-60****
0.22	17.5	16.0	10.0	15.0	0.8	C822G224-60****
0.27	17.5	19.0	11.0	15.0	0.8	C822G274-60****
0.12	26.5	15.0	6.0	22.5	0.8	C822G124-90****
0.15	26.5	15.0	6.0	22.5	0.8	C822G154-90****
0.18	26.5	15.0	6.0	22.5	0.8	C822G184-90****
0.22	26.5	16.0	7.0	22.5	0.8	C822G224-90****
0.27	26.5	17.0	8.5	22.5	0.8	C822G274-90****
0.33	26.5	17.0	8.5	22.50	0.8	C822G334-90****
0.39	26.5	18.5	10.0	22.5	0.8	C822G394-90****
0.47	26.5	18.5	10.0	22.5	0.8	C822G474-90****
0.56	26.5	22.0	12.0	22.5	0.8	C822G564-90****
0.68	26.5	22.0	12.0	22.5	0.8	C822G684-90****
0.39	32.0	18.0	9.0	27.5	0.8	C822G394-B0****
0.47	32.0	18.0	9.0	27.5	0.8	C822G474-B0****
0.56	32.0	20.0	11.0	27.5	0.8	C822G564-B0****
0.68	32.0	20.0	11.0	27.5	0.8	C822G684-B0****
0.82	32.0	22.0	13.0	27.5	0.8	C822G824-B0****
1.0	32.0	24.5	15.0	27.5	0.8	C822G105-B0****
1.2	32.0	24.5	15.0	27.5	0.8	C822G125-B0****
1.5	32.0	33.0	18.0	27.5	0.8	C822G155-B0****
1.8	32.0	33.0	18.0	27.5	0.8	C822G185-B0****

备注 Note: 1. “-”表示容量偏差。 “.”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).
 3. “@”不用作跨线,请参见抗干扰电容器(Page 109).
 “@” Not suitable for across-the-line application. Pls refer to Interference Suppression Capacitors(Page 109).

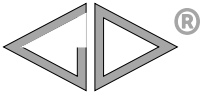


■ 外形尺寸 Dimensions(mm)

630Vdc (400Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.00068	10.5	9.0	4.0	7.5	0.6	C822J681-30****
0.00082	10.5	9.0	4.0	7.5	0.6	C822J821-30****
0.0010	10.5	9.0	4.0	7.5	0.6	C822J102-30****
0.0012	10.5	9.0	4.0	7.5	0.6	C822J122-30****
0.0015	10.5	9.0	4.0	7.5	0.6	C822J152-30****
0.0018	10.5	9.0	4.0	7.5	0.6	C822J182-30****
0.0022	10.5	9.0	4.0	7.5	0.6	C822J222-30****
0.0027	10.5	9.0	4.0	7.5	0.6	C822J272-30****
0.0033	10.5	9.0	4.0	7.5	0.6	C822J332-30****
0.0039	10.5	9.0	4.0	7.5	0.6	C822J392-30****
0.0047	10.5	9.0	4.0	7.5	0.6	C822J472-30****
0.0056	10.5	9.0	4.0	7.5	0.6	C822J562-30****
0.0068	10.5	11.0	5.0	7.5	0.6	C822J682-30****
0.0082	10.5	11.0	5.0	7.5	0.6	C822J822-30****
0.010	10.5	12.0	6.0	7.5	0.6	C822J103-30****
0.012	10.5	12.0	6.0	7.5	0.6	C822J123-30****
0.0039	13.0	9.0	4.0	10.0	0.6	C822J392-40****
0.0047	13.0	9.0	4.0	10.0	0.6	C822J472-40****
0.0056	13.0	9.0	4.0	10.0	0.6	C822J562-40****
0.0068	13.0	9.0	4.0	10.0	0.6	C822J682-40****
0.0082	13.0	9.0	4.0	10.0	0.6	C822J822-40****
0.010	13.0	11.0	5.0	10.0	0.6	C822J103-40****
0.012	13.0	11.0	5.0	10.0	0.6	C822J123-40****
0.015	13.0	12.0	6.0	10.0	0.6	C822J153-40****
0.018	13.0	12.0	6.0	10.0	0.6	C822J183-40****
0.010	17.5	11.0	5.0	15.0	0.8	C822J103-60****
0.012	17.5	11.0	5.0	15.0	0.8	C822J123-60****
0.015	17.5	11.0	5.0	15.0	0.8	C822J153-60****
0.018	17.5	11.0	5.0	15.0	0.8	C822J183-60****
0.022	17.5	11.0	5.0	15.0	0.8	C822J223-60****
0.027	17.5	11.0	5.0	15.0	0.8	C822J273-60****
0.033	17.5	12.0	6.0	15.0	0.8	C822J333-60****

630Vdc (400Vac)						
C _N (μF)	W	H	T	P	d	Part number
0.039	17.5	12.0	6.0	15.0	0.8	C822J393-60****
0.047	17.5	12.0	6.0	15.0	0.8	C822J473-60****
0.056	17.5	13.5	7.5	15.0	0.8	C822J563-60****
0.068	17.5	14.5	8.5	15.0	0.8	C822J683-60****
0.082	17.5	14.5	8.5	15.0	0.8	C822J823-60****
0.10	17.5	16.0	10.0	15.0	0.8	C822J104-60****
0.12	17.5	19.0	11.0	15.0	0.8	C822J124-60****
0.047	26.5	15.0	6.0	22.5	0.8	C822J473-90****
0.056	26.5	15.0	6.0	22.5	0.8	C822J563-90****
0.068	26.5	15.0	6.0	22.5	0.8	C822J683-90****
0.082	26.5	15.0	6.0	22.5	0.8	C822J823-90****
0.10	26.5	15.0	6.0	22.5	0.8	C822J104-90****
0.12	26.5	16.0	7.0	22.5	0.8	C822J124-90****
0.15	26.5	17.0	8.5	22.5	0.8	C822J154-90****
0.18	26.5	17.0	8.5	22.5	0.8	C822J184-90****
0.22	26.5	18.5	10.0	22.5	0.8	C822J224-90****
0.27	26.5	22.0	12.0	22.5	0.8	C822J274-90****
0.33	26.5	22.0	12.0	22.5	0.8	C822J334-90****
0.39	26.5	22.0	12.0	22.5	0.8	C822J394-90****
0.15	32.0	18.0	9.0	27.5	0.8	C822J154-B0****
0.18	32.0	18.0	9.0	27.5	0.8	C822J184-B0****
0.22	32.0	18.0	9.0	27.5	0.8	C822J224-B0****
0.27	32.0	18.0	9.0	27.5	0.8	C822J274-B0****
0.33	32.0	20.0	11.0	27.5	0.8	C822J334-B0****
0.39	32.0	20.0	11.0	27.5	0.8	C822J394-B0****
0.47	32.0	22.0	13.0	27.5	0.8	C822J474-B0****
0.56	32.0	22.0	13.0	27.5	0.8	C822J564-B0****
0.68	32.0	24.5	15.0	27.5	0.8	C822J684-B0****
0.82	32.0	28.0	14.0	27.5	0.8	C822J824-B0****
1.0	32.0	33.0	18.0	27.5	0.8	C822J105-B0****
1.2	32.0	33.0	18.0	27.5	0.8	C822J125-B0****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).

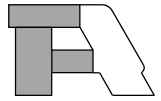


C82 MMKP82 series

■ 外形尺寸 Dimensions(mm)

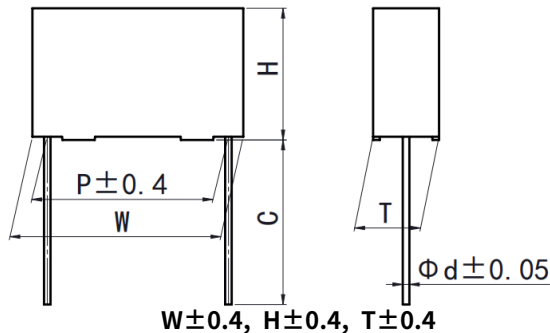
1 000Vdc(600Vac)							1 600Vdc(650Vac)							2 000Vdc(700Vac)						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.00047K	10.5	9.0	4.0	7.5	0.6	C823A471K30****	0.00068	17.5	11.0	5.0	15.0	0.8	C823C681-60****	0.00022	17.5	11.0	5.0	15.0	0.8	C823D221-60****
0.00056	10.5	9.0	4.0	7.5	0.6	C823A561-30****	0.00082	17.5	11.0	5.0	15.0	0.8	C823C821-60****	0.00027	17.5	11.0	5.0	15.0	0.8	C823D271-60****
0.00068	10.5	9.0	4.0	7.5	0.6	C823A681-30****	0.0010	17.5	11.0	5.0	15.0	0.8	C823C102-60****	0.00033	17.5	11.0	5.0	15.0	0.8	C823D331-60****
0.00082	10.5	9.0	4.0	7.5	0.6	C823A821-30****	0.0012	17.5	11.0	5.0	15.0	0.8	C823C122-60****	0.00039	17.5	11.0	5.0	15.0	0.8	C823D391-60****
0.0010	10.5	9.0	4.0	7.5	0.6	C823A102-30****	0.0015	17.5	11.0	5.0	15.0	0.8	C823C152-60****	0.00047	17.5	11.0	5.0	15.0	0.8	C823D471-60****
0.0012	10.5	11.0	5.0	7.5	0.6	C823A122-30****	0.0018	17.5	11.0	5.0	15.0	0.8	C823C182-60****	0.00056	17.5	11.0	5.0	15.0	0.8	C823D561-60****
0.0015	10.5	11.0	5.0	7.5	0.6	C823A152-30****	0.0022	17.5	11.0	5.0	15.0	0.8	C823C222-60****	0.00068	17.5	11.0	5.0	15.0	0.8	C823D681-60****
0.0018	10.5	11.0	5.0	7.5	0.6	C823A182-30****	0.0027	17.5	11.0	5.0	15.0	0.8	C823C272-60****	0.00082	17.5	11.0	5.0	15.0	0.8	C823D821-60****
0.0022	10.5	11.0	5.0	7.5	0.6	C823A222-30****	0.0033	17.5	11.0	5.0	15.0	0.8	C823C332-60****	0.0010	17.5	11.0	5.0	15.0	0.8	C823D102-60****
0.0027	10.5	12.0	6.0	7.5	0.6	C823A272-30****	0.0039	17.5	11.0	5.0	15.0	0.8	C823C392-60****	0.0012	17.5	11.0	5.0	15.0	0.8	C823D122-60****
0.0033	10.5	12.0	6.0	7.5	0.6	C823A332-30****	0.0047	17.5	11.0	5.0	15.0	0.8	C823C472-60****	0.0015	17.5	11.0	5.0	15.0	0.8	C823D152-60****
0.0010	13.0	9.0	4.0	10.0	0.6	C823A102-40****	0.0056	17.5	11.0	5.0	15.0	0.8	C823C562-60****	0.0018	17.5	11.0	5.0	15.0	0.8	C823D182-60****
0.0012	13.0	9.0	4.0	10.0	0.6	C823A122-40****	0.0068	17.5	11.0	5.0	15.0	0.8	C823C682-60****	0.0022	17.5	11.0	5.0	15.0	0.8	C823D222-60****
0.0015	13.0	9.0	4.0	10.0	0.6	C823A152-40****	0.0082	17.5	12.0	6.0	15.0	0.8	C823C822-60****	0.0027	17.5	11.0	5.0	15.0	0.8	C823D272-60****
0.0018	13.0	9.0	4.0	10.0	0.6	C823A182-40****	0.010	17.5	12.0	6.0	15.0	0.8	C823C103-60****	0.0033	17.5	12.0	6.0	15.0	0.8	C823D332-60****
0.0022	13.0	9.0	4.0	10.0	0.6	C823A222-40****	0.012	17.5	13.5	7.5	15.0	0.8	C823C123-60****	0.0039	17.5	12.0	6.0	15.0	0.8	C823D392-60****
0.0027	13.0	9.0	4.0	10.0	0.6	C823A272-40****	0.015	17.5	13.5	7.5	15.0	0.8	C823C153-60****	0.0047	17.5	12.0	6.0	15.0	0.8	C823D472-60****
0.0033	13.0	9.0	4.0	10.0	0.6	C823A332-40****	0.018	17.5	14.5	8.5	15.0	0.8	C823C183-60****	0.0056	17.5	13.5	7.5	15.0	0.8	C823D562-60****
0.0039	13.0	11.0	5.0	10.0	0.6	C823A392-40****	0.022	17.5	14.5	8.5	15.0	0.8	C823C223-60****	0.0068	17.5	13.5	7.5	15.0	0.8	C823D682-60****
0.0047	13.0	11.0	5.0	10.0	0.6	C823A472-40****	0.027	17.5	16.0	10.0	15.0	0.8	C823C273-60****	0.0082	17.5	14.5	8.5	15.0	0.8	C823D822-60****
0.0056	13.0	12.0	6.0	10.0	0.6	C823A562-40****	0.033	17.5	19.0	11.0	15.0	0.8	C823C333-60****	0.010	17.5	16.0	10.0	15.0	0.8	C823D103-60****
0.0068	13.0	12.0	6.0	10.0	0.6	C823A682-40****	0.015	26.5	15.0	6.0	22.5	0.8	C823C153-90****	0.012	17.5	16.0	10.0	15.0	0.8	C823D123-60****
0.0082	17.5	11.0	5.0	15.0	0.8	C823A822-60****	0.018	26.5	15.0	6.0	22.5	0.8	C823C183-90****	0.015	17.5	19.0	11.0	15.0	0.8	C823D153-60****
0.010	17.5	11.0	5.0	15.0	0.8	C823A103-60****	0.022	26.5	15.0	6.0	22.5	0.8	C823C223-90****	0.0010	26.5	15.0	6.0	22.5	0.8	C823D102-90****
0.012	17.5	11.0	5.0	15.0	0.8	C823A123-60****	0.027	26.5	15.0	6.0	22.5	0.8	C823C273-90****	0.0012	26.5	15.0	6.0	22.5	0.8	C823D122-90****
0.015	17.5	11.0	5.0	15.0	0.8	C823A153-60****	0.033	26.5	16.0	7.0	22.5	0.8	C823C333-90****	0.0015	26.5	15.0	6.0	22.5	0.8	C823D152-90****
0.018	17.5	13.5	7.5	15.0	0.8	C823A183-60****	0.039	26.5	17.0	8.5	22.5	0.8	C823C393-90****	0.0018	26.5	15.0	6.0	22.5	0.8	C823D182-90****
0.022	17.5	13.5	7.5	15.0	0.8	C823A223-60****	0.047	26.5	18.5	10.0	22.5	0.8	C823C473-90****	0.0022	26.5	15.0	6.0	22.5	0.8	C823D222-90****
0.027	17.5	14.5	8.5	15.0	0.8	C823A273-60****	0.056	26.5	18.5	10.0	22.5	0.8	C823C563-90****	0.0027	26.5	15.0	6.0	22.5	0.8	C823D272-90****
0.033	17.5	14.5	8.5	15.0	0.8	C823A333-60****	0.068	26.5	22.0	12.0	22.5	0.8	C823C683-90****	0.0033	26.5	15.0	6.0	22.5	0.8	C823D332-90****
0.039	17.5	16.0	10.0	15.0	0.8	C823A393-60****	0.082	26.5	22.0	12.0	22.5	0.8	C823C823-90****	0.0039	26.5	15.0	6.0	22.5	0.8	C823D392-90****
0.047	17.5	19.0	11.0	15.0	0.8	C823A473-60****	0.039	32.0	18.0	9.0	27.5	0.8	C823C393-B0****	0.0047	26.5	15.0	6.0	22.5	0.8	C823D472-90****
0.027	26.5	15.0	6.0	22.5	0.8	C823A273-90****	0.047	32.0	18.0	9.0	27.5	0.8	C823C473-B0****	0.0056	26.5	15.0	6.0	22.5	0.8	C823D562-90****
0.033	26.5	15.0	6.0	22.5	0.8	C823A333-90****	0.056	32.0	18.0	9.0	27.5	0.8	C823C563-B0****	0.0068	26.5	15.0	6.0	22.5	0.8	C823D682-90****
0.039	26.5	15.0	6.0	22.5	0.8	C823A393-90****	0.068	32.0	18.0	9.0	27.5	0.8	C823C683-B0****	0.0082	26.5	15.0	6.0	22.5	0.8	C823D822-90****
0.047	26.5	16.0	7.0	22.5	0.8	C823A473-90****	0.082	32.0	20.0	11.0	27.5	0.8	C823C823-B0****	0.010	26.5	15.0	6.0	22.5	0.8	C823D103-90****
0.056	26.5	16.0	7.0	22.5	0.8	C823A563-90****	0.10	32.0	20.0	11.0	27.5	0.8	C823C104-B0****	0.012	26.5	15.0	6.0	22.5	0.8	C823D123-90****
0.068	26.5	17.0	8.5	22.5	0.8	C823A683-90****	0.12	32.0	22.0	13.0	27.5	0.8	C823C124-B0****	0.015	26.5	16.0	7.0	22.5	0.8	C823D153-90****
0.082	26.5	18.5	10.0	22.5	0.8	C823A823-90****	0.15	32.0	24.5	15.0	27.5	0.8	C823C154-B0****	0.018	26.5	16.0	7.0	22.5	0.8	C823D183-90****
0.10	26.5	18.5	10.0	22.5	0.8	C823A104-90****	0.18	32.0	24.5	15.0	27.5	0.8	C823C184-B0****	0.022	26.5	17.0	8.5	22.5	0.8	C823D223-90****
0.12	26.5	22.0	12.0	22.5	0.8	C823A124-90****	0.22	32.0	33.0	18.0	27.5	0.8	C823C224-B0****	0.027	26.5	18.5	10.0	22.5	0.8	C823D273-90****
0.15	26.5	22.0	12.0	22.5	0.8	C823A154-90****	0.27	32.0	33.0	18.0	27.5	0.8	C823C274-B0****	0.033	26.5	18.5	10.0	22.5	0.8	C823D333-90****
0.10	32.0	18.0	9.0	27.5	0.8	C823A104-B0****	0.33	32.0	33.0	18.0	27.5	0.8	C823C334-B0****	0.039	26.5	22.0	12.0	22.5	0.8	C823D393-90****
0.12	32.0	20.0	11.0	27.5	0.8	C823A124-B0****								0.047	26.5	22.0	12.0	22.5	0.8	C823D473-90****
0.15	32.0	20.0	11.0	27.5	0.8	C823A154-B0****								0.022	32.0	18.0	9.0	27.5	0.8	C823D223-B0****
0.18	32.0	22.0	13.0	27.5	0.8	C823A184-B0****								0.027	32.0	18.0	9.0	27.5	0.8	C823D273-B0****
0.22	32.0	22.0	13.0	27.5	0.8	C823A224-B0****								0.033	32.0	18.0	9.0	27.5	0.8	C823D333-B0****
0.27	32.0	24.5	15.0	27.5	0.8	C823A274-B0****								0.039	32.0	20.0	11.0	27.5	0.8	C823D393-B0****
0.33	32.0	28.0	14.0	27.5	0.8	C823A334-B0****								0.047	32.0	20.0	11.0	27.5	0.8	C823D473-B0****
0.39	32.0	33.0	18.0	27.5	0.8	C823A394-B0****								0.056	32.0	22.0	13.0	27.5	0.8	C823D563-B0****
0.47	32.0	33.0	18.0	27.5	0.8	C823A474-B0****								0.068	32.0	22.0	13.0	27.5	0.8	C823D683-B0****
														0.082	32.0	24.5	15.0	27.5	0.8	C823D823-B0****
														0.10	32.0	28.0	14.0	27.5	0.8	C823D104-B0****
														0.12	32.0	33.0	18.0	27.5	0.8	C823D124-B0****
														0.15	32.0	33.0	18.0	27.5	0.8	C823D154-B0****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).



塑料外壳双面金属化聚丙烯膜电容器 Double sided metallized polypropylene film capacitor(Box-type)

外形图 Outline Drawing



特点

- 双面金属化聚丙烯膜
- 损耗小，内部温升小
- 负电容量温度系数
- 优异的阻燃性能

主要用途

- 高压高频脉冲电路中
- 电子照明(汽车头灯、镇流器)

Features

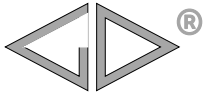
- Doublesided metallized polypropylene film
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Excellent active and passive flame resistant abilities

Typical Applications

- Pulse applications with high. AC. voltage and HIGH current
- Electronic lighting(i.e. car headlamp and lighting ballast)

技术要求 Specifications

引用标准 Reference Standard	GB/T 14579 (IEC 60384-17)				
气候类别 Climatic Category	40/105/56				
额定温度 Rated Temperature	85°C				
工作温度 Operating Temperature Range	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)				
额定电压 Rated Voltage	250Vac(630Vdc), 300Vac(800Vdc), 400Vac(1000Vdc) 500Vac(1600Vdc), 700Vac(2000Vdc), 900Vac(2500Vdc)				
电容量范围 Capacitance Range	0.0010μF~0.12μF				
电容量偏差 Capacitance Tolerance	±2%(G), ±3%(H), ±3.5%(C), ±5%(J), ±10%(K), ±20%(M)				
耐电压 Voltage Proof	1.6 U_R (5s)				
损耗角正切 Dissipation Factor	≤10×10 ⁻⁴ (20°C, 1kHz)				
绝缘电阻 Insulation Resistance	≥100 000MΩ (20°C, 100V, 1min)				
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt(V/μs)			
		P=10.0	P=15.0	P=22.5	P=27.5
	250(630Vdc)	3000	1100	-	-
	300(800Vdc)	-	2500	1500	-
	400(1000Vdc)	-	3500	2100	-
	500(1600Vdc)	-	5000	3000	2000
	700(2000Vdc)	-	8000	5000	2200
900(2500Vdc)	-	-	7000	-	



C84

MMKP84 series

■ 产品编码说明 Part number system

■ 15 位产品代码如下：

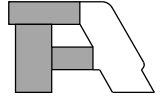
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	8	4												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C84= MMKP84		C84= MMKP84
第 4~5 位	交流额定电压	Digit 4 to 5	D.C. rated voltage
	E2=250V Q1=300V G2=400V		E2=250V Q1=300V G2=400V
	H2=500V V1=700V X1=900V		H2=500V V1=700V X1=900V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例： 103=10×10³pF=0.01μF		for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	G=±2%, H=±3%, J=±5%		G=±2%, H=±3%, J=±5%
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm		4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm		9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	4 6	F=10.0mm F=15.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length	
		00	标准的引线长度(18mm~26mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



■ 外形尺寸 Dimensions(mm)

250Vac(630Vdc)						
C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C84E2103-40****
0.012	13.0	9.0	4.0	10.0	0.6	C84E2123-40****
0.015	13.0	11.0	5.0	10.0	0.6	C84E2153-40****
0.018	13.0	12.0	6.0	10.0	0.6	C84E2183-40****
0.022	13.0	12.0	6.0	10.0	0.6	C84E2223-40****
0.027	17.5	12.0	6.0	15.0	0.8	C84E2273-60****
0.033	17.5	12.0	6.0	15.0	0.8	C84E2333-60****
0.039	17.5	12.0	6.0	15.0	0.8	C84E2393-60****
0.047	17.5	13.5	7.5	15.0	0.8	C84E2473-60****
0.056	17.5	13.5	7.5	15.0	0.8	C84E2563-60****
0.068	17.5	14.5	8.5	15.0	0.8	C84E2683-60****
0.082	17.5	16.0	10.0	15.0	0.8	C84E2823-60****
0.10	17.5	16.0	10.0	15.0	0.8	C84E2104-60****

300Vac(800Vdc)						
C _N (μF)	W	H	T	P	d	Part number
0.010	17.5	11.0	5.0	15.0	0.8	C84Q1103-60****
0.012	17.5	11.0	5.0	15.0	0.8	C84Q1123-60****
0.015	17.5	11.0	5.0	15.0	0.8	C84Q1153-60****
0.018	17.5	11.0	5.0	15.0	0.8	C84Q1183-60****
0.022	17.5	12.0	6.0	15.0	0.8	C84Q1223-60****
0.027	17.5	12.0	6.0	15.0	0.8	C84Q1273-60****
0.033	17.5	13.5	7.5	15.0	0.8	C84Q1333-60****
0.039	17.5	13.5	7.5	15.0	0.8	C84Q1393-60****
0.047	17.5	14.5	8.5	15.0	0.8	C84Q1473-60****
0.056	17.5	16.0	10.0	15.0	0.8	C84Q1563-60****
0.068	17.5	16.0	10.0	15.0	0.8	C84Q1683-60****
0.056	26.5	15.0	6.0	22.5	0.8	C84Q1563-90****
0.068	26.5	16.0	7.0	22.5	0.8	C84Q1683-90****
0.082	26.5	17.0	8.5	22.5	0.8	C84Q1823-90****
0.10	26.5	17.0	8.5	22.5	0.8	C84Q1104-90****

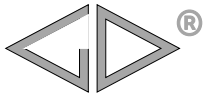
400Vac(1000Vdc)						
C _N (μF)	W	H	T	P	d	Part number
0.0056	17.5	11.0	5.0	15.0	0.8	C84G2562-60****
0.0068	17.5	11.0	5.0	15.0	0.8	C84G2682-60****
0.0082	17.5	11.0	5.0	15.0	0.8	C84G2822-60****
0.010	17.5	12.0	6.0	15.0	0.8	C84G2103-60****
0.012	17.5	12.0	6.0	15.0	0.8	C84G2123-60****
0.015	17.5	13.5	7.5	15.0	0.8	C84G2153-60****
0.018	17.5	13.5	7.5	15.0	0.8	C84G2183-60****
0.022	17.5	14.5	8.5	15.0	0.8	C84G2223-60****
0.027	17.5	16.0	10.0	15.0	0.8	C84G2273-60****
0.033	17.5	16.0	10.0	15.0	0.8	C84G2333-60****
0.027	26.5	15.0	6.0	22.5	0.8	C84G2273-90****
0.033	26.5	16.0	7.0	22.5	0.8	C84G2333-90****
0.039	26.5	16.0	7.0	22.5	0.8	C84G2393-90****
0.047	26.5	17.0	8.5	22.5	0.8	C84G2473-90****
0.056	26.5	17.0	8.5	22.5	0.8	C84G2563-90****
0.068	26.5	18.5	10.0	22.5	0.8	C84G2683-90****
0.082	26.5	18.5	10.0	22.5	0.8	C84G2823-90****
0.10	26.5	22.0	12.0	22.5	0.8	C84G2104-90****

500Vac(1600Vdc)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	17.5	11.0	5.0	15.0	0.8	C84H2102-60****
0.0012	17.5	11.0	5.0	15.0	0.8	C84H2122-60****
0.0015	17.5	11.0	5.0	15.0	0.8	C84H2152-60****
0.0018	17.5	11.0	5.0	15.0	0.8	C84H2182-60****
0.0022	17.5	11.0	5.0	15.0	0.8	C84H2222-60****
0.0027	17.5	11.0	5.0	15.0	0.8	C84H2272-60****
0.0033	17.5	11.0	5.0	15.0	0.8	C84H2332-60****
0.0039	17.5	11.0	5.0	15.0	0.8	C84H2392-60****
0.0047	17.5	11.0	5.0	15.0	0.8	C84H2472-60****
0.0056	17.5	11.0	5.0	15.0	0.8	C84H2562-60****
0.0068	17.5	12.0	6.0	15.0	0.8	C84H2682-60****
0.0082	17.5	12.0	6.0	15.0	0.8	C84H2822-60****
0.010	17.5	13.5	7.5	15.0	0.8	C84H2103-60****
0.012	17.5	13.5	7.5	15.0	0.8	C84H2123-60****
0.015	17.5	14.5	8.5	15.0	0.8	C84H2153-60****
0.018	17.5	16.0	10.0	15.0	0.8	C84H2183-60****
0.022	17.5	16.0	10.0	15.0	0.8	C84H2223-60****
0.018	26.5	15.0	6.0	22.5	0.8	C84H2183-90****
0.022	26.5	16.0	7.0	22.5	0.8	C84H2223-90****
0.027	26.5	16.0	7.0	22.5	0.8	C84H2273-90****
0.033	26.5	17.0	8.5	22.5	0.8	C84H2333-90****
0.039	26.5	18.5	10.0	22.5	0.8	C84H2393-90****
0.047	26.5	18.5	10.0	22.5	0.8	C84H2473-90****
0.056	26.5	22.0	12.0	22.5	0.8	C84H2563-90****
0.068	32.0	20.0	11.0	27.5	0.8	C84H2683-B0****
0.082	32.0	20.0	11.0	27.5	0.8	C84H2823-B0****
0.10	32.0	22.0	13.0	27.5	0.8	C84H2104-B0****

700Vac(2000Vdc)						
C _N (μF)	W	H	T	P	d	Part number
0.00051	17.5	11.0	5.0	15.0	0.8	C84V1511-60****
0.00068	17.5	11.0	5.0	15.0	0.8	C84V1681-60****
0.0010	17.5	11.0	5.0	15.0	0.8	C84V1102-60****
0.0012	17.5	11.0	5.0	15.0	0.8	C84V1122-60****
0.0015	17.5	11.0	5.0	15.0	0.8	C84V1152-60****
0.0018	17.5	11.0	5.0	15.0	0.8	C84V1182-60****
0.0022	17.5	11.0	5.0	15.0	0.8	C84V1222-60****
0.0027	17.5	12.0	6.0	15.0	0.8	C84V1272-60****
0.0033	17.5	12.0	6.0	15.0	0.8	C84V1332-60****
0.0039	17.5	13.5	7.5	15.0	0.8	C84V1392-60****
0.0047	17.5	13.5	7.5	15.0	0.8	C84V1472-60****
0.0056	17.5	14.5	8.5	15.0	0.8	C84V1562-60****
0.0068	17.5	14.5	8.5	15.0	0.8	C84V1682-60****
0.0082	17.5	16.0	10.0	15.0	0.8	C84V1822-60****
0.010	17.5	16.0	10.0	15.0	0.8	C84V1103-60****
0.0068	26.5	15.0	6.0	22.5	0.8	C84V1682-90****
0.0082	26.5	15.0	6.0	22.5	0.8	C84V1822-90****
0.010	26.5	15.0	6.0	22.5	0.8	C84V1103-90****
0.012	26.5	16.0	7.0	22.5	0.8	C84V1123-90****
0.015	26.5	17.0	8.5	22.5	0.8	C84V1153-90****
0.018	26.5	18.5	10.0	22.5	0.8	C84V1183-90****
0.022	26.5	18.5	10.0	22.5	0.8	C84V1223-90****
0.027	26.5	22.0	12.0	22.5	0.8	C84V1273-90****
0.033	26.5	22.0	12.0	22.5	0.8	C84V1333-90****
0.018	32.0	18.0	9.0	27.5	0.8	C84V1183-B0****
0.022	32.0	18.0	9.0	27.5	0.8	C84V1223-B0****
0.027	32.0	18.0	9.0	27.5	0.8	C84V1273-B0****
0.033	32.0	20.0	11.0	27.5	0.8	C84V1333-B0****
0.039	32.0	20.0	11.0	27.5	0.8	C84V1393-B0****
0.047	32.0	22.0	13.0	27.5	0.8	C84V1473-B0****
0.056	32.0	22.0	13.0	27.5	0.8	C84V1563-B0****
0.068	32.0	24.5	15.0	27.5	0.8	C84V1683-B0****
0.082	32.0	28.0	14.0	27.5	0.8	C84V1823-B0****
0.10	32.0	33.0	18.0	27.5	0.8	C84V1104-B0****
0.12	32.0	33.0	18.0	27.5	0.8	C84V1124-B0****

900Vac(2500Vdc)						
C _N (μF)	W	H	T	P	d	Part number
0.0010	26.5	15.0	6.0	22.5	0.8	C84X1102-90****
0.0012	26.5	15.0	6.0	22.5	0.8	C84X1122-90****
0.0015	26.5	15.0	6.0	22.5	0.8	C84X1152-90****
0.0018	26.5	15.0	6.0	22.5	0.8	C84X1182-90****
0.0022	26.5	15.0	6.0	22.5	0.8	C84X1222-90****
0.0027	26.5	15.0	6.0	22.5	0.8	C84X1272-90****
0.0033	26.5	15.0	6.0	22.5	0.8	C84X1332-90****
0.0039	26.5	15.0	6.0	22.5	0.8	C84X1392-90****
0.0047	26.5	15.0	6.0	22.5	0.8	C84X1472-90****
0.0056	26.5	15.0	6.0	22.5	0.8	C84X1562-90****
0.0068	26.5	16.0	7.0	22.5	0.8	C84X1682-90****
0.0082	26.5	16.0	7.0	22.5	0.8	C84X1822-90****
0.010	26.5	17.0	8.5	22.5	0.8	C84X1103-90****
0.012	26.5	18.5	10.0	22.5	0.8	C84X1123-90****
0.015	26.5	18.5	10.0	22.5	0.8	C84X1153-90****
0.018	26.5	22.0	12.0	22.5	0.8	C84X1183-90****
0.022	26.5	22.0	12.0	22.5	0.8	C84X1223-90****

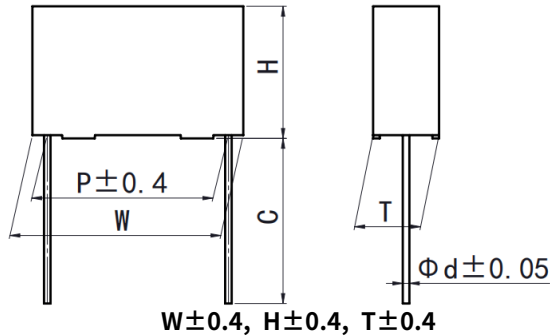
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%, H=±3%, G=±2%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code (refer to table 1).



C35
MKP25 series

金属化聚丙烯膜电容器 Metallized polypropylene film capacitor(Box-type)

外形图 Outline Drawing



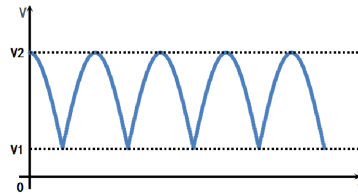
特点

- 金属化聚丙烯膜
- 良好的电性能
- 塑料外壳 (UL94 V-0), 阻燃环氧填充

主要用途

- 用于开关电源、电子镇流器和变频器等中间电路直流滤波 (如: DC-Link、PFC 等)

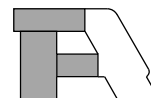
a : The C35 series is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as following reference. If you have any questions for this note, please feel free to contact our technical engineer.



Here: $V_1 \geq 0, V_2 \leq U_R, V_{rms} = (V_2 - V_1) \div \sqrt{2}, I_{rms} = 2 \pi f \times C \times (V_2 - V_1) \div \sqrt{2}$
 U_R is the rated voltage of the capacitor

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)								
气候类别 Climatic Category	40/105/56								
额定温度 Rated Temperature	85°C								
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)								
额定电压 Rated Voltage	450V, 520V, 630V								
电容量范围 Capacitance Range	0.022μF~22.0μF								
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)								
耐电压 Voltage Proof	1.6 U_R (5s)								
损耗角正切 Dissipation Factor	≤ 15×10^{-4} (20°C, 1kHz)								
绝缘电阻 Insulation Resistance	R≥100 000MΩ, $C_N \leq 0.33\mu F$ RC _N ≥30 000s, $C_N > 0.33\mu F$ (20°C, 100V, 1min)								
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt (V/μs) —Miniature version				dV/dt(V/μs)			
		P=10.0	P=15.0	P=22.5	P=27.5	P=10.0	P=15.0	P=22.5	P=27.5
	450	100	65	35	20	300	200	100	80
	520	120	80	60	40	350	220	150	100
630	200	160	70	50	400	300	180	120	



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

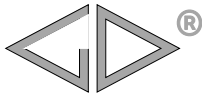
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	5												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C35=MKP25		C35=MKP25
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2S=450V 2T=520V 2J=630V		2S=450V 2T=520V 2J=630V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm		4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm		9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to catalogue page 16)
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length	
		00	标准的引线长度(16mm~26mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



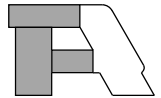
C35
MKP25 series

■ 外形尺寸 Dimensions(mm)

小型化 Miniature version—(Small sizes + Segmented metallized-film design)

450Vdc							520Vdc							630Vdc						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.12	13.0	9.0	4.0	10.0	0.6	C352S124-4S****	0.082	13.0	9.0	4.0	10.0	0.6	C352T823-4S****	0.056	13.0	9.0	4.0	10.0	0.6	C352J563-4S****
0.15	13.0	9.0	4.0	10.0	0.6	C352S154-4S****	0.10	13.0	9.0	4.0	10.0	0.6	C352T104-4S****	0.068	13.0	9.0	4.0	10.0	0.6	C352J683-4S****
0.18	13.0	11.0	5.0	10.0	0.6	C352S184-4S****	0.12	13.0	11.0	5.0	10.0	0.6	C352T124-4S****	0.082	13.0	11.0	5.0	10.0	0.6	C352J823-4S****
0.22	13.0	11.0	5.0	10.0	0.6	C352S224-4S****	0.15	13.0	11.0	5.0	10.0	0.6	C352T154-4S****	0.10	13.0	11.0	5.0	10.0	0.6	C352J104-4S****
0.27	13.0	12.0	6.0	10.0	0.6	C352S274-4S****	0.18	13.0	12.0	6.0	10.0	0.6	C352T184-4S****	0.12	13.0	12.0	6.0	10.0	0.6	C352J124-4S****
0.33	13.0	12.0	6.0	10.0	0.6	C352S334-4S****	0.22	13.0	12.0	6.0	10.0	0.6	C352T224-4S****	0.15	13.0	12.0	6.0	10.0	0.6	C352J154-4S****
0.39	13.0	13.0	7.0	10.0	0.6	C352S394-4S****	0.27	13.0	13.0	7.0	10.0	0.6	C352T274-4S****	0.18	13.0	13.0	7.0	10.0	0.6	C352J184-4S****
0.47	13.0	13.0	7.0	10.0	0.6	C352S474-4S****	0.33	13.0	13.0	7.0	10.0	0.6	C352T334-4S****	0.22	13.0	13.0	7.0	10.0	0.6	C352J224-4S****
0.56	13.0	14.0	8.0	10.0	0.6	C352S564-4S****	0.39	13.0	14.0	8.0	10.0	0.6	C352T394-4S****	0.27	13.0	14.0	8.0	10.0	0.6	C352J274-4S****
0.68	13.0	14.0	8.0	10.0	0.6	C352S684-4S****	0.47	13.0	14.0	8.0	10.0	0.6	C352T474-4S****	0.33	13.0	14.0	8.0	10.0	0.6	C352J334-4S****
0.22	17.5	11.0	5.0	15.0	0.6	C352S224-6S****	0.27	17.5	11.0	5.0	15.0	0.6	C352T274-6S****	0.18	17.5	11.0	5.0	15.0	0.6	C352J184-6S****
0.33	17.5	11.0	5.0	15.0	0.6	C352S334-6S****	0.33	17.5	11.0	5.0	15.0	0.6	C352T334-6S****	0.22	17.5	11.0	5.0	15.0	0.6	C352J224-6S****
0.39	17.5	11.0	5.0	15.0	0.6	C352S394-6S****	0.39	17.5	12.0	6.0	15.0	0.6	C352T394-6S****	0.27	17.5	12.0	6.0	15.0	0.6	C352J274-6S****
0.47	17.5	11.0	5.0	15.0	0.6	C352S474-6S****	0.47	17.5	12.0	6.0	15.0	0.6	C352T474-6S****	0.33	17.5	12.0	6.0	15.0	0.6	C352J334-6S****
0.56	17.5	12.0	6.0	15.0	0.6	C352S564-6S****	0.56	17.5	12.0	7.0	15.0	0.6	C352T564-6S****	0.39	17.5	12.0	7.0	15.0	0.6	C352J394-6S****
0.68	17.5	12.0	7.0	15.0	0.6	C352S684-6S****	0.68	17.5	13.5	7.5	15.0	0.6	C352T684-6S****	0.47	17.5	13.5	7.5	15.0	0.6	C352J474-6S****
0.82	17.5	12.0	7.0	15.0	0.6	C352S824-6S****	0.82	17.5	14.0	8.0	15.0	0.6	C352T824-6S****	0.56	17.5	14.0	8.0	15.0	0.6	C352J564-6S****
1.0	17.5	13.5	7.5	15.0	0.6	C352S105-6S****	1.0	17.5	14.5	8.5	15.0	0.6	C352T105-6S****	0.68	17.5	14.5	8.5	15.0	0.6	C352J684-6S****
1.2	17.5	14.0	8.0	15.0	0.6	C352S125-6S****	1.2	17.5	16.0	10.0	15.0	0.8	C352T125-6S****	0.82	17.5	16.0	10.0	15.0	0.8	C352J824-6S****
1.5	17.5	16.0	10.0	15.0	0.8	C352S155-6S****	1.5	17.5	19.0	11.0	15.0	0.8	C352T155-6S****	1.0	17.5	16.0	10.0	15.0	0.8	C352J105-6S****
1.8	17.5	16.0	10.0	15.0	0.8	C352S185-6S****	0.68	26.5	15.0	6.0	22.5	0.8	C352T684-9S****	1.2	17.5	19.0	11.0	15.0	0.8	C352J125-6S****
2.2	17.5	19.0	11.0	15.0	0.8	C352S225-6S****	0.82	26.5	15.0	6.0	22.5	0.8	C352T824-9S****	0.47	26.5	15.0	6.0	22.5	0.8	C352J474-9S****
1.0	26.5	15.0	6.0	22.5	0.8	C352S105-9S****	1.0	26.5	16.0	7.0	22.5	0.8	C352T105-9S****	0.56	26.5	15.0	6.0	22.5	0.8	C352J564-9S****
1.2	26.5	15.0	6.0	22.5	0.8	C352S125-9S****	1.2	26.5	16.0	7.0	22.5	0.8	C352T125-9S****	0.68	26.5	16.0	7.0	22.5	0.8	C352J684-9S****
1.5	26.5	16.0	7.0	22.5	0.8	C352S155-9S****	1.5	26.5	17.0	8.5	22.5	0.8	C352T155-9S****	0.82	26.5	16.0	7.0	22.5	0.8	C352J824-9S****
1.8	26.5	16.0	7.0	22.5	0.8	C352S185-9S****	1.8	26.5	17.0	8.5	22.5	0.8	C352T185-9S****	1.0	26.5	17.0	8.5	22.5	0.8	C352J105-9S****
2.2	26.5	17.0	8.5	22.5	0.8	C352S225-9S****	2.2	26.5	18.5	10.0	22.5	0.8	C352T225-9S****	1.2	26.5	17.0	8.5	22.5	0.8	C352J125-9S****
2.7	26.5	17.0	8.5	22.5	0.8	C352S275-9S****	2.7	26.5	18.5	10.0	22.5	0.8	C352T275-9S****	1.5	26.5	18.5	10.0	22.5	0.8	C352J155-9S****
3.3	26.5	18.5	10.0	22.5	0.8	C352S335-9S****	3.3	26.5	20.0	11.0	22.5	0.8	C352T335-9S****	1.8	26.5	18.5	10.0	22.5	0.8	C352J185-9S****
3.9M	26.5	18.5	10.0	22.5	0.8	C352S395M9S****	3.9	26.5	22.0	12.0	22.5	0.8	C352T395-9S****	2.2	26.5	20.0	11.0	22.5	0.8	C352J225-9S****
4.7K	26.5	20.0	11.0	22.5	0.8	C352S475K9S****	4.7	26.5	24.5	15.5	22.5	0.8	C352T475-9S****	2.7	26.5	22.0	12.0	22.5	0.8	C352J275-9S****
5.6	26.5	22.0	12.0	22.5	0.8	C352S565-9S****	5.6	26.5	24.5	15.5	22.5	0.8	C352T565-9S****	3.3	26.5	24.5	15.5	22.5	0.8	C352J335-9S****
6.8	26.5	24.5	15.5	22.5	0.8	C352S685-9S****	2.2	32.0	18.0	9.0	27.5	0.8	C352T225-BS****	3.9	26.5	24.5	15.5	22.5	0.8	C352J395-9S****
8.2	26.5	24.5	15.5	22.5	0.8	C352S825-9S****	2.7	32.0	18.0	9.0	27.5	0.8	C352T275-BS****	1.8	32.0	18.0	9.0	27.5	0.8	C352J185-BS****
3.3	32.0	18.0	9.0	27.5	0.8	C352S335-BS****	3.3	32.0	20.0	11.0	27.5	0.8	C352T335-BS****	2.2	32.0	20.0	11.0	27.5	0.8	C352J225-BS****
3.9M	32.0	18.0	9.0	27.5	0.8	C352S395MBS****	3.9	32.0	20.0	11.0	27.5	0.8	C352T395-BS****	2.7	32.0	20.0	11.0	27.5	0.8	C352J275-BS****
4.7	32.0	20.0	11.0	27.5	0.8	C352S475-BS****	4.7	32.0	22.0	13.0	27.5	0.8	C352T475-BS****	3.3	32.0	22.0	13.0	27.5	0.8	C352J335-BS****
5.6M	32.0	20.0	11.0	27.5	0.8	C352S565MBS****	5.6	32.0	22.0	13.0	27.5	0.8	C352T565-BS****	3.9M	32.0	22.0	13.0	27.5	0.8	C352J395MBS****
6.8	32.0	22.0	13.0	27.5	0.8	C352S685-BS****	6.8	32.0	24.5	15.0	27.5	0.8	C352T685-BS****	4.7	32.0	24.5	15.0	27.5	0.8	C352J475-BS****
8.2	32.0	24.5	15.0	27.5	0.8	C352S825-BS****	8.2	32.0	28.0	14.0	27.5	0.8	C352T825-BS****	5.6	32.0	28.0	17.0	27.5	0.8	C352J565-BS****
10.0M	32.0	24.5	15.0	27.5	0.8	C352S106MBS****	10.0M	32.0	28.0	17.0	27.5	0.8	C352T106MBS****	6.8	32.0	28.0	17.0	27.5	0.8	C352J685-BS****
12.0	32.0	28.0	17.0	27.5	0.8	C352S126-BS****	12.0	32.0	33.0	18.0	27.5	0.8	C352T126-BS****	8.2M	32.0	29.0	19.0	27.5	0.8	C352J825MBS****
15.0	32.0	33.0	18.0	27.5	0.8	C352S156-BS****	15.0	32.0	37.0	22.0	27.5	0.8	C352T156-BS****	10.0	32.0	37.0	22.0	27.5	0.8	C352J106-BS****
18.0	32.0	37.0	22.0	27.5	0.8	C352S186-BS****	18.0	32.0	37.0	22.0	27.5	0.8	C352T186-BS****	12.0	32.0	37.0	22.0	27.5	0.8	C352J126-BS****
22.0	32.0	37.0	22.0	27.5	0.8	C352S226-BS****														

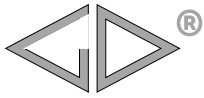
备注 Note: 1. “-”表示容量偏差。 “ ”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



■ 外形尺寸 Dimensions(mm)

450Vdc							450Vdc							520Vdc						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.068	13.0	9.0	4.0	10.0	0.6	C352S683-40****	1.2	26.5	18.5	10.0	22.5	0.8	C352S125-90****	0.047	13.0	9.0	4.0	10.0	0.6	C352T473-40****
0.082	13.0	9.0	4.0	10.0	0.6	C352S823-40****	1.5	26.5	18.5	10.0	22.5	0.8	C352S155-90****	0.056	13.0	9.0	4.0	10.0	0.6	C352T563-40****
0.10	13.0	11.0	5.0	10.0	0.6	C352S104-40****	1.8	26.5	22.0	12.0	22.5	0.8	C352S185-90****	0.068	13.0	9.0	4.0	10.0	0.6	C352T683-40****
0.12	13.0	11.0	5.0	10.0	0.6	C352S124-40****	0.68	32.0	18.0	9.0	27.5	0.8	C352S684-B0****	0.082	13.0	11.0	5.0	10.0	0.6	C352T823-40****
0.15	13.0	12.0	6.0	10.0	0.6	C352S154-40****	0.82	32.0	18.0	9.0	27.5	0.8	C352S824-B0****	0.1	13.0	11.0	5.0	10.0	0.6	C352T104-40****
0.18	13.0	12.0	6.0	10.0	0.6	C352S184-40****	1.0	32.0	18.0	9.0	27.5	0.8	C352S105-B0****	0.12	13.0	12.0	6.0	10.0	0.6	C352T124-40****
0.22	13.0	13.0	7.0	10.0	0.6	C352S224-40****	1.2	32.0	18.0	9.0	27.5	0.8	C352S125-B0****	0.15	13.0	12.0	6.0	10.0	0.6	C352T154-40****
0.27	13.0	13.0	7.0	10.0	0.6	C352S274-40****	1.5	32.0	18.0	9.0	27.5	0.8	C352S155-B0****	0.18	13.0	13.0	7.0	10.0	0.6	C352T184-40****
0.33	13.0	14.0	8.0	10.0	0.6	C352S334-40****	1.8	32.0	20.0	11.0	27.5	0.8	C352S185-B0****	0.22	13.0	13.0	7.0	10.0	0.6	C352T224-40****
0.10	17.5	9.5	5.0	15.0	0.6	C352S104-6A****	2.2	32.0	20.0	11.0	27.5	0.8	C352S225-B0****	0.27	13.0	14.0	8.0	10.0	0.6	C352T274-40****
0.12	17.5	9.5	5.0	15.0	0.6	C352S124-6A****	2.7	32.0	22.0	13.0	27.5	0.8	C352S275-B0****	0.033	17.5	9.5	5.0	15.0	0.6	C352T333-6A****
0.15	17.5	11.0	5.0	15.0	0.6	C352S154-6A****	3.3	32.0	22.0	13.0	27.5	0.8	C352S335-B0****	0.039	17.5	9.5	5.0	15.0	0.6	C352T393-6A****
0.18	17.5	11.0	5.0	15.0	0.6	C352S184-6A****	3.9	32.0	24.5	15.0	27.5	0.8	C352S395-B0****	0.047	17.5	11.0	5.0	15.0	0.6	C352T473-6A****
0.22	17.5	11.0	5.0	15.0	0.6	C352S224-6A****	4.7	32.0	33.0	18.0	27.5	0.8	C352S475-B0****	0.056	17.5	11.0	5.0	15.0	0.6	C352T563-6A****
0.27	17.5	12.0	6.0	15.0	0.6	C352S274-6A****	5.6	32.0	33.0	18.0	27.5	0.8	C352S565-B0****	0.068	17.5	11.0	5.0	15.0	0.6	C352T683-6A****
0.33	17.5	12.0	6.0	15.0	0.6	C352S334-6A****	6.8	32.0	33.0	18.0	27.5	0.8	C352S685-B0****	0.082	17.5	11.0	5.0	15.0	0.6	C352T823-6A****
0.39	17.5	13.5	7.5	15.0	0.6	C352S394-6A****	8.2	32.0	33.0	18.0	27.5	0.8	C352S825-B0****	0.1	17.5	11.0	5.0	15.0	0.6	C352T104-6A****
0.47	17.5	13.5	7.5	15.0	0.6	C352S474-6A****								0.12	17.5	11.0	5.0	15.0	0.6	C352T124-6A****
0.56	17.5	13.5	7.5	15.0	0.6	C352S564-6A****								0.15	17.5	11.0	5.0	15.0	0.6	C352T154-6A****
0.68	17.5	16.0	10.0	15.0	0.8	C352S684-60****								0.18	17.5	11.0	5.0	15.0	0.6	C352T184-6A****
0.82	17.5	16.0	10.0	15.0	0.8	C352S824-60****								0.22	17.5	12.0	6.0	15.0	0.6	C352T224-6A****
1.0	17.5	19.0	11.0	15.0	0.8	C352S105-60****								0.27	17.5	12.0	6.0	15.0	0.6	C352T274-6A****
0.27	26.5	15.0	6.0	22.5	0.6	C352S274-9A****								0.33	17.5	13.5	7.5	15.0	0.6	C352T334-6A****
0.33	26.5	15.0	6.0	22.5	0.6	C352S334-9A****								0.39	17.5	13.5	7.5	15.0	0.6	C352T394-6A****
0.39	26.5	15.0	6.0	22.5	0.6	C352S394-9A****								0.47	17.5	14.5	8.5	15.0	0.8	C352T474-60****
0.47	26.5	15.0	6.0	22.5	0.6	C352S474-9A****								0.56	17.5	16.0	10.0	15.0	0.8	C352T564-60****
0.56	26.5	16.0	7.0	22.5	0.6	C352S564-9A****								0.68	17.5	16.0	10.0	15.0	0.8	C352T684-60****
0.68	26.5	16.0	7.0	22.5	0.6	C352S684-9A****								0.82	17.5	19.0	11.0	15.0	0.8	C352T824-60****
0.82	26.5	16.0	7.0	22.5	0.6	C352S824-9A****								1.0	17.5	19.0	11.0	15.0	0.8	C352T105-60****
1.0	26.5	17.0	8.5	22.5	0.8	C352S105-90****								0.18	26.5	15.0	6.0	22.5	0.6	C352T184-9A****

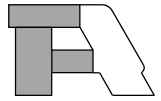
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



■ 外形尺寸 Dimensions(mm)

520Vdc (200Vac)							630Vdc							630Vdc						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.22	26.5	15.0	6.0	22.5	0.6	C352J224-9A****	0.022	13.0	9.0	4.0	10.0	0.6	C352J223-40****	0.18	26.5	15.0	6.0	22.5	0.6	C352J184-9A****
0.27	26.5	15.0	6.0	22.5	0.6	C352J274-9A****	0.027	13.0	9.0	4.0	10.0	0.6	C352J273-40****	0.22	26.5	15.0	6.0	22.5	0.6	C352J224-9A****
0.33	26.5	15.0	6.0	22.5	0.6	C352J334-9A****	0.033	13.0	9.0	4.0	10.0	0.6	C352J333-40****	0.27	26.5	15.0	6.0	22.5	0.6	C352J274-9A****
0.39	26.5	16.0	7.0	22.5	0.6	C352J394-9A****	0.039	13.0	9.0	4.0	10.0	0.6	C352J393-40****	0.33	26.5	15.0	6.0	22.5	0.6	C352J334-9A****
0.47	26.5	16.0	7.0	22.5	0.6	C352J474-9A****	0.047	13.0	11.0	5.0	10.0	0.6	C352J473-40****	0.39	26.5	16.0	7.0	22.5	0.6	C352J394-9A****
0.56	26.5	17.0	8.5	22.5	0.8	C352J564-90****	0.056	13.0	11.0	5.0	10.0	0.6	C352J563-40****	0.47	26.5	16.0	7.0	22.5	0.6	C352J474-9A****
0.68	26.5	17.0	8.5	22.5	0.8	C352J684-90****	0.068	13.0	11.0	5.0	10.0	0.6	C352J683-40****	0.56	26.5	17.0	8.5	22.5	0.8	C352J564-90****
0.82	26.5	18.5	10.0	22.5	0.8	C352J824-90****	0.082	13.0	12.0	6.0	10.0	0.6	C352J823-40****	0.68	26.5	17.0	8.5	22.5	0.8	C352J684-90****
1.0	26.5	18.5	10.0	22.5	0.8	C352J105-90****	0.10	13.0	12.0	6.0	10.0	0.6	C352J104-40****	0.82	26.5	18.5	10.0	22.5	0.8	C352J824-90****
1.2	26.5	22.0	12.0	22.5	0.8	C352J125-90****	0.12	13.0	13.0	7.0	10.0	0.6	C352J124-40****	1.0	26.5	18.5	10.0	22.5	0.8	C352J105-90****
0.27	32.0	18.0	9.0	27.5	0.8	C352J274-B0****	0.15	13.0	13.0	7.0	10.0	0.6	C352J154-40****	1.2	26.5	22.0	12.0	22.5	0.8	C352J125-90****
0.33	32.0	18.0	9.0	27.5	0.8	C352J334-B0****	0.18	13.0	14.0	8.0	10.0	0.6	C352J184-40****	0.27	32.0	18.0	9.0	27.5	0.8	C352J274-B0****
0.39	32.0	18.0	9.0	27.5	0.8	C352J394-B0****	0.068	17.5	9.5	5.0	15.0	0.6	C352J683-6A****	0.33	32.0	18.0	9.0	27.5	0.8	C352J334-B0****
0.47	32.0	18.0	9.0	27.5	0.8	C352J474-B0****	0.082	17.5	11.0	5.0	15.0	0.6	C352J823-6A****	0.39	32.0	18.0	9.0	27.5	0.8	C352J394-B0****
0.56	32.0	18.0	9.0	27.5	0.8	C352J564-B0****	0.10	17.5	11.0	5.0	15.0	0.6	C352J104-6A****	0.47	32.0	18.0	9.0	27.5	0.8	C352J474-B0****
0.68	32.0	18.0	9.0	27.5	0.8	C352J684-B0****	0.12	17.5	11.0	5.0	15.0	0.6	C352J124-6A****	0.56	32.0	18.0	9.0	27.5	0.8	C352J564-B0****
0.82	32.0	18.0	9.0	27.5	0.8	C352J824-B0****	0.15	17.5	12.0	6.0	15.0	0.6	C352J154-6A****	0.68	32.0	18.0	9.0	27.5	0.8	C352J684-B0****
1.0	32.0	20.0	11.0	27.5	0.8	C352J105-B0****	0.18	17.5	12.0	6.0	15.0	0.6	C352J184-6A****	0.82	32.0	18.0	9.0	27.5	0.8	C352J824-B0****
1.2	32.0	20.0	11.0	27.5	0.8	C352J125-B0****	0.22	17.5	13.5	7.5	15.0	0.6	C352J224-6A****	1.0	32.0	20.0	11.0	27.5	0.8	C352J105-B0****
1.5	32.0	22.0	13.0	27.5	0.8	C352J155-B0****	0.27	17.5	13.5	7.5	15.0	0.6	C352J274-6A****	1.2	32.0	20.0	11.0	27.5	0.8	C352J125-B0****
1.8	32.0	22.0	13.0	27.5	0.8	C352J185-B0****	0.33	17.5	14.5	8.5	15.0	0.8	C352J334-60****	1.5	32.0	22.0	13.0	27.5	0.8	C352J155-B0****
2.2	32.0	24.5	15.0	27.5	0.8	C352J225-B0****	0.39	17.5	16.0	10.0	15.0	0.8	C352J394-60****	1.8	32.0	22.0	13.0	27.5	0.8	C352J185-B0****
2.7	32.0	28.0	14.0	27.5	0.8	C352J275-B0****	0.47	17.5	16.0	10.0	15.0	0.8	C352J474-60****	2.2	32.0	24.5	15.0	27.5	0.8	C352J225-B0****
3.3	32.0	33.0	18.0	27.5	0.8	C352J335-B0****	0.56	17.5	19.0	11.0	15.0	0.8	C352J564-60****	2.7	32.0	28.0	14.0	27.5	0.8	C352J275-B0****
3.9	32.0	33.0	18.0	27.5	0.8	C352J395-B0****	0.68	17.5	19.0	11.0	15.0	0.8	C352J684-60****	3.3	32.0	33.0	18.0	27.5	0.8	C352J335-B0****
4.7	32.0	33.0	18.0	27.5	0.8	C352S475-B0****	0.15	26.5	15.0	6.0	22.5	0.6	C352J154-9A****	3.9	32.0	33.0	18.0	27.5	0.8	C352J395-B0****
5.6	32.0	33.0	18.0	27.5	0.8	C352S565-B0****														
6.8	32.0	33.0	18.0	27.5	0.8	C352S685-B0****														
8.2	32.0	33.0	18.0	27.5	0.8	C352S825-B0****														

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



金属化聚酯膜电容器(浸渍型) Metallized polyester film capacitor(dipped)

外形图 Outline Drawing

		Forming Lead Shapes			
		I	II	III	IV
		$P \geq F$		$P < F$	
		$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
		$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$			

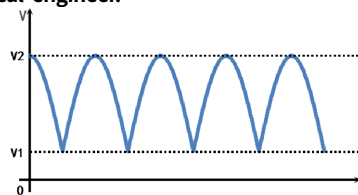
特点

- 金属化聚丙烯膜
- 良好的电性能
- 阻燃环氧粉末包封(UL94/V-0)

主要用途

- 用于开关电源、电子镇流器和变频器等中间电路直流滤波(如: DC-Link、PFC等)

a: The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.

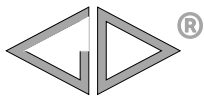


$$\text{Here: } V_1 \geq 0, V_2 \leq U_R, V_{rms} = (V_2 - V_1) \div \sqrt{2}, I_{rms} = 2 \pi f \times C \times (V_2 - V_1) \div \sqrt{2}$$

U_R is the rated voltage of the capacitor

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)							
气候类别 Climatic Category	40/105/56							
额定温度 Rated Temperature	85°C							
工作温度 Operating Temperature Range	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)							
额定电压 Rated Voltage	450V, 520V, 630V							
电容量范围 Capacitance Range	0.027μF~18.0μF							
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)							
耐电压 Voltage Proof	1.6 U_R (5s)							
损耗角正切 Dissipation Factor	$\leq 10 \times 10^{-4}$ (20°C, 1kHz)							
绝缘电阻 Insulation Resistance	$R \geq 100\,000\text{M}\Omega$, $C_N \leq 0.33\mu\text{F}$ $R_{C,N} \geq 30\,000\text{s}$, $C_N > 0.33\mu\text{F}$ (20°C, 100V, 1min)							
最大脉冲爬升速率 Maximum Pulse Rise Time(dv/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dv/dt 场合, 这样 dv/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dv/dt. In this case, the maximum allowed dv/dt is obtain by multiplying the right value with U_R/U .	U_R (V)		dv/dt (V/μs) —Miniature version			dv/dt(V/μs)		
		P=10.0	P=15.0	P=22.5	P=27.5	P=10.0	P=15.0	P=22.5
	450	100	65	35	20	300	200	100
	520	120	80	60	40	350	220	150
630	200	160	70	50	400	300	180	



C37

■ 产品编码说明 Part number system

■ 15 位产品代码如下：

The 15 digits part number is formed as follow:

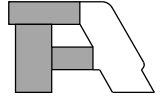
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	7												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C32= MKP21		C32= MKP21
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2S=450V 2T=520V 2J=630V		2S=450V 2T=520V 2J=630V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm		4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm		9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm (For pitch=7.5mm)
		3	F=7.5mm			E	P3=25.4mm; H=20.0mm (For pitch=10.0/15.0mm)
		4	F=10.0mm				(Detail parameter refer to page 17)
6	F=15.0mm						
F	引线成型 lead kinked	2	F=5.0mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
		3	F=7.5mm				
		4	F=10.0mm				
		6	F=15.0mm				
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation	45	引线长度 4.5mm lead length 4.5mm	0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

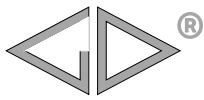
第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)



■ 外形尺寸 Dimensions(mm)
小型化 Miniature version—(Small size+ Segmented metallized-film design)

450Vdc							520Vdc							630Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.10	12.5	7.7	4.0	10.0	0.6	C372S104-4S****	0.068	12.5	7.7	4.0	10.0	0.6	C372T683-4S****	0.056	12.5	7.9	4.1	10.0	0.6	C372J563-4S****
0.12	12.5	7.9	4.3	10.0	0.6	C372S124-4S****	0.082	12.5	7.9	4.2	10.0	0.6	C372T823-4S****	0.068	12.5	8.8	4.4	10.0	0.6	C372J683-4S****
0.15	12.5	8.8	4.6	10.0	0.6	C372S154-4S****	0.10	12.5	8.8	4.5	10.0	0.6	C372T104-4S****	0.082	12.5	8.8	4.7	10.0	0.6	C372J823-4S****
0.18	12.5	9.1	4.7	10.0	0.6	C372S184-4S****	0.12	12.5	8.8	4.8	10.0	0.6	C372T124-4S****	0.10	12.5	8.8	5.0	10.0	0.6	C372J104-4S****
0.22	12.5	9.5	5.0	10.0	0.6	C372S224-4S****	0.15	12.5	9.5	4.9	10.0	0.6	C372T154-4S****	0.12	12.5	9.5	5.4	10.0	0.6	C372J124-4S****
0.27	12.5	10.4	5.7	10.0	0.6	C372S274-4S****	0.18	12.5	10.4	5.3	10.0	0.6	C372T184-4S****	0.15	12.5	10.4	5.6	10.0	0.6	C372J154-4S****
0.33	12.5	10.9	6.2	10.0	0.6	C372S334-4S****	0.22	12.5	10.4	5.7	10.0	0.6	C372T224-4S****	0.18	12.5	10.4	6.0	10.0	0.6	C372J184-4S****
0.39	12.5	11.4	6.6	10.0	0.6	C372S394-4S****	0.27	12.5	10.9	6.5	10.0	0.6	C372T274-4S****	0.22	12.5	11.4	6.5	10.0	0.6	C372J224-4S****
0.47	12.5	11.8	7.1	10.0	0.6	C372S474-4S****	0.33	12.5	11.4	7.1	10.0	0.6	C372T334-4S****	0.27	12.5	11.9	7.4	10.0	0.6	C372J274-4S****
1.0	12.5	14.8	9.4	10.0	0.6	C372S105-4S****	0.18	17.8	9.3	4.7	15.0	0.6	C372T184-6S****	0.15	17.8	9.5	4.9	15.0	0.6	C372J154-6S****
0.27	17.8	9.4	4.8	15.0	0.6	C372S274-6S****	0.22	17.8	9.6	5.0	15.0	0.6	C372T224-6S****	0.18	17.8	10.3	5.2	15.0	0.6	C372J184-6S****
0.33	17.8	9.8	5.1	15.0	0.6	C372S334-6S****	0.27	17.8	10.0	5.4	15.0	0.6	C372T274-6S****	0.22	17.8	10.8	5.3	15.0	0.6	C372J224-6S****
0.39	17.8	10.6	5.9	15.0	0.6	C372S394-6S****	0.33	17.8	11.0	5.5	15.0	0.6	C372T334-6S****	0.27	17.8	11.2	5.8	15.0	0.6	C372J274-6S****
0.47	17.8	11.5	6.0	15.0	0.6	C372S474-6S****	0.39	17.8	11.8	6.4	15.0	0.6	C372T394-6S****	0.33	17.8	12.8	5.8	15.0	0.6	C372J334-6S****
0.56	17.8	11.9	6.4	15.0	0.6	C372S564-6S****	0.47	17.8	12.3	6.9	15.0	0.6	C372T474-6S****	0.39	17.8	13.7	6.7	15.0	0.6	C372J394-6S****
0.68	17.8	13.4	6.4	15.0	0.6	C372S684-6S****	0.56	17.8	12.8	7.3	15.0	0.6	C372T564-6S****	0.47	17.8	14.2	7.2	15.0	0.6	C372J474-6S****
0.82	17.8	13.9	7.0	15.0	0.6	C372S824-6S****	0.68	17.8	14.4	7.4	15.0	0.6	C372T684-6S****	0.56	17.8	14.7	7.8	15.0	0.6	C372J564-6S****
1.0	17.8	14.5	7.5	15.0	0.6	C372S105-6S****	0.82	17.8	14.9	8.0	15.0	0.8	C372T824-6S****	0.68	17.8	15.4	8.4	15.0	0.8	C372J684-6S****
1.2	17.8	15.1	8.1	15.0	0.8	C372S125-6S****	1.0	17.8	15.7	8.7	15.0	0.8	C372T105-6S****	0.82	17.8	16.1	9.1	15.0	0.8	C372J824-6S****
1.5	17.8	16.0	9.0	15.0	0.8	C372S155-6S****	1.2	17.8	16.4	9.4	15.0	0.8	C372T125-6S****	1.0	17.8	17.0	10.0	15.0	0.8	C372J105-6S****
1.8	17.8	16.7	9.7	15.0	0.8	C372S185-6S****	1.5	17.8	17.8	10.3	15.0	0.8	C372T155-6S****	1.2	17.8	18.0	11.0	15.0	0.8	C372J125-6S****
2.2	17.8	17.7	10.7	15.0	0.8	C372S225-6S****	0.56	25.5	11.5	6.1	22.5	0.6	C372T564-9S****	0.47	25.5	11.9	6.4	22.5	0.6	C372J474-9S****
0.47	25.5	10.6	5.1	22.5	0.6	C372S474-9S****	0.68	25.5	12.0	6.6	22.5	0.6	C372T684-9S****	0.56	25.5	12.3	6.9	22.5	0.6	C372J564-9S****
0.56	25.5	10.9	5.4	22.5	0.6	C372S564-9S****	0.82	25.5	12.5	7.1	22.5	0.6	C372T824-9S****	0.68	25.5	12.8	7.4	22.5	0.6	C372J684-9S****
0.68	25.5	11.2	5.7	22.5	0.6	C372S684-9S****	1.0	25.5	14.1	7.1	22.5	0.6	C372T105-9S****	0.82	25.5	13.4	8.0	22.5	0.8	C372J824-9S****
0.82	25.5	11.6	6.2	22.5	0.6	C372S824-9S****	1.2	25.5	14.6	7.6	22.5	0.6	C372T125-9S****	1.0	25.5	15.1	8.1	22.5	0.8	C372J105-9S****
1.0	25.5	12.1	6.7	22.5	0.6	C372S105-9S****	1.5	25.5	16.4	7.9	22.5	0.8	C372T155-9S****	1.2	25.5	15.7	8.7	22.5	0.8	C372J125-9S****
1.2	25.5	13.7	6.7	22.5	0.6	C372S125-9S****	1.8	25.5	17.1	8.5	22.5	0.8	C372T185-9S****	1.5	25.5	17.6	9.1	22.5	0.8	C372J155-9S****
1.5	25.5	14.3	7.3	22.5	0.6	C372S155-9S****	2.2	25.5	17.9	9.4	22.5	0.8	C372T225-9S****	1.8	25.5	18.5	9.9	22.5	0.8	C372J185-9S****
1.8	25.5	14.9	7.9	22.5	0.8	C372S185-9S****	2.7	25.5	18.9	10.3	22.5	0.8	C372T275-9S****	2.2	25.5	19.5	10.9	22.5	0.8	C372J225-9S****
2.2	25.5	16.6	8.1	22.5	0.8	C372S225-9S****	3.3	25.5	19.9	11.4	22.5	0.8	C372T335-9S****	2.7	25.5	20.6	12.1	22.5	0.8	C372J275-9S****
2.7	25.5	17.4	8.9	22.5	0.8	C372S275-9S****	3.9	25.5	20.9	12.4	22.5	0.8	C372T395-9S****	3.3	25.5	22.8	12.7	22.5	0.8	C372J335-9S****
3.3	25.5	18.3	9.7	22.5	0.8	C372S335-9S****	1.2	30.7	15.1	6.5	27.5	0.6	C372T125-BS****	1.0	30.7	15.4	6.9	27.5	0.6	C372J105-BS****
3.9	25.5	19.1	10.5	22.5	0.8	C372S395-9S****	1.5	30.7	15.7	7.1	27.5	0.6	C372T155-BS****	1.2	30.7	16.0	7.4	27.5	0.6	C372J125-BS****
4.7	25.5	20.1	11.6	22.5	0.8	C372S475-9S****	1.8	30.7	17.4	7.3	27.5	0.6	C372T185-BS****	1.5	30.7	16.8	8.2	27.5	0.8	C372J155-BS****
5.6	25.5	21.2	12.6	22.5	0.8	C372S565-9S****	2.2	30.7	18.1	8.0	27.5	0.8	C372T225-BS****	1.8	30.7	18.5	8.4	27.5	0.8	C372J185-BS****
1.5	30.7	15.0	6.1	27.5	0.8	C372S155-BS****	2.7	30.7	18.9	8.8	27.5	0.8	C372T275-BS****	2.2	30.7	19.4	9.3	27.5	0.8	C372J225-BS****
1.8	30.7	15.3	6.7	27.5	0.8	C372S185-BS****	3.3	30.7	19.8	9.7	27.5	0.8	C372T335-BS****	2.7	30.7	20.4	10.2	27.5	0.8	C372J275-BS****
2.2	30.7	15.9	7.3	27.5	0.8	C372S225-BS****	3.9	30.7	20.6	10.5	27.5	0.8	C372T395-BS****	3.3	30.7	23.6	10.3	27.5	0.8	C372J335-BS****
2.7	30.7	16.5	8.0	27.5	0.8	C372S275-BS****	4.7	30.7	23.7	10.5	27.5	0.8	C372T475-BS****	3.9	30.7	24.5	11.2	27.5	0.8	C372J395-BS****
3.3	30.7	17.3	8.8	27.5	0.8	C372S335-BS****	5.6	30.7	24.8	11.5	27.5	0.8	C372T565-BS****	4.7	30.7	25.7	12.4	27.5	0.8	C372J475-BS****
3.9	30.7	18.0	9.5	27.5	0.8	C372S395-BS****	6.8	30.7	26.0	12.8	27.5	0.8	C372T685-BS****	5.6	30.7	26.9	13.7	27.5	0.8	C372J565-BS****
4.7	30.7	19.9	9.8	27.5	0.8	C372S475-BS****	8.2	30.7	27.4	14.1	27.5	0.8	C372T825-BS****	6.8	30.7	28.5	15.2	27.5	0.8	C372J685-BS****
5.6	30.7	20.8	10.7	27.5	0.8	C372S565-BS****	10.0	30.7	29.0	15.7	27.5	0.8	C372T106-BS****	8.2	30.7	30.1	16.9	27.5	0.8	C372J825-BS****
6.8	30.7	24.0	10.7	27.5	0.8	C372S685-BS****	12.0	30.7	28.9	18.8	27.5	0.8	C372T126-BS****	10.0	30.7	30.3	20.2	27.5	0.8	C372J106-BS****
8.2	30.7	25.1	11.9	27.5	0.8	C372S825-BS****	15.0	30.7	33.4	20.0	27.5	0.5	C372T156-BS****							
10.0	30.7	26.5	13.2	27.5	0.8	C372S106-BS****														
12.0	30.7	27.8	14.6	27.5	0.8	C372S126-BS****														
15.0	30.7	27.9	17.8	27.5	0.8	C372S156-BS****														
18.0	30.7	29.7	19.6	27.5	0.8	C372S186-BS****														

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).

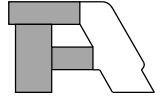


C37

■ 外形尺寸 Dimensions(mm)

450Vdc							450Vdc							520Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.047	12.5	7.7	4.1	10.0	0.6	C372S473-40****	1.8	25.5	19.1	10.6	22.5	0.8	C372S185-90****	0.039	12.5	7.8	4.1	10.0	0.6	C372T393-40****
0.056	12.5	7.9	4.3	10.0	0.6	C372S563-40****	2.2	25.5	20.2	11.7	22.5	0.8	C372S225-90****	0.047	12.5	8.0	4.4	10.0	0.6	C372T473-40****
0.068	12.5	8.8	4.4	10.0	0.6	C372S683-40****	2.7	25.5	21.5	12.9	22.5	0.8	C372S275-90****	0.056	12.5	8.8	4.4	10.0	0.6	C372T563-40****
0.082	12.5	9.1	4.7	10.0	0.6	C372S823-40****	0.68	30.7	13.5	6.0	27.5	0.6	C372S684-B0****	0.068	12.5	9.2	4.7	10.0	0.6	C372T683-40****
0.10	12.5	9.5	5.3	10.0	0.6	C372S104-40****	0.82	30.7	14.0	6.6	27.5	0.6	C372S824-B0****	0.082	12.5	9.5	5.1	10.0	0.6	C372T823-40****
0.12	12.5	10.4	5.5	10.0	0.6	C372S124-40****	1.0	30.7	14.7	7.7	27.5	0.6	C372S105-B0****	0.1	12.5	10.5	5.6	10.0	0.6	C372T104-40****
0.15	12.5	10.9	6.0	10.0	0.6	C372S154-40****	1.2	30.7	16.4	7.8	27.5	0.8	C372S125-B0****	0.12	12.5	10.9	6.0	10.0	0.6	C372T124-40****
0.18	12.5	11.4	6.4	10.0	0.6	C372S184-40****	1.5	30.7	17.2	8.7	27.5	0.8	C372S155-B0****	0.15	12.5	11.5	6.6	10.0	0.6	C372T154-40****
0.15	17.8	9.7	5.1	15.0	0.6	C372S154-60****	1.8	30.7	18.0	9.4	27.5	0.8	C372S185-B0****	0.18	12.5	12.0	7.1	10.0	0.6	C372T184-40****
0.18	17.8	10.6	5.2	15.0	0.6	C372S184-60****	2.2	30.7	20.0	9.8	27.5	0.8	C372S225-B0****	0.10	17.8	9.4	4.8	15.0	0.6	C372T104-60****
0.22	17.8	11.0	5.6	15.0	0.6	C372S224-60****	2.7	30.7	23.2	9.9	27.5	0.8	C372S275-B0****	0.12	17.8	9.7	5.1	15.0	0.6	C372T124-60****
0.27	17.8	11.5	6.0	15.0	0.6	C372S274-60****	3.3	30.7	24.3	11.0	27.5	0.8	C372S335-B0****	0.15	17.8	10.1	5.5	15.0	0.6	C372T154-60****
0.33	17.8	12.0	6.6	15.0	0.6	C372S334-60****	3.9	30.7	25.3	12.0	27.5	0.8	C372S395-B0****	0.18	17.8	10.5	5.9	15.0	0.6	C372T184-60****
0.39	17.8	12.5	7.1	15.0	0.6	C372S394-60****	4.7	30.7	26.6	13.3	27.5	0.8	C372S475-B0****	0.22	17.8	11.0	6.4	15.0	0.6	C372T224-60****
0.47	17.8	14.6	7.1	15.0	0.6	C372S474-60****	5.6	30.7	28.0	14.7	27.5	0.8	C372S565-B0****	0.27	17.8	12.1	6.6	15.0	0.6	C372T274-60****
0.56	17.8	15.2	7.7	15.0	0.8	C372S564-60****	6.8	30.7	29.6	16.4	27.5	0.8	C372S685-B0****	0.33	17.8	12.6	7.2	15.0	0.6	C372T334-60****
0.68	17.8	15.9	8.5	15.0	0.8	C372S684-60****	8.2	30.7	31.4	18.2	27.5	0.8	C372S825-B0****	0.39	17.8	14.7	7.2	15.0	0.6	C372T394-60****
0.82	17.8	16.8	9.3	15.0	0.8	C372S824-60****	10.0	30.7	33.5	20.3	27.5	0.8	C372S106-B0****	0.47	17.8	15.4	7.9	15.0	0.8	C372T474-60****
1.0	17.8	17.7	10.7	15.0	0.8	C372S105-60****								0.56	17.8	16.1	8.6	15.0	0.8	C372T564-60****
1.2	17.8	18.7	11.7	15.0	0.8	C372S125-60****								0.68	17.8	16.9	9.4	15.0	0.8	C372T684-60****
0.27	25.5	10.4	5.0	22.5	0.6	C372S274-90****								0.82	17.8	17.8	10.3	15.0	0.8	C372T824-60****
0.33	25.5	10.8	5.4	22.5	0.6	C372S334-90****								1.0	17.8	18.9	11.9	15.0	0.8	C372T105-60****
0.39	25.5	11.2	5.7	22.5	0.6	C372S394-90****								0.33	25.5	11.3	5.9	22.5	0.6	C372T334-90****
0.47	25.5	11.6	6.2	22.5	0.6	C372S474-90****								0.39	25.5	11.7	6.3	22.5	0.6	C372T394-90****
0.56	25.5	13.6	6.2	22.5	0.6	C372S564-90****								0.47	25.5	13.8	6.3	22.5	0.6	C372T474-90****
0.68	25.5	14.2	6.7	22.5	0.6	C372S684-90****								0.56	25.5	14.3	6.8	22.5	0.6	C372T564-90****
0.82	25.5	15.9	6.8	22.5	0.6	C372S824-90****								0.68	25.5	16.0	6.9	22.5	0.6	C372T684-90****
1.0	25.5	16.5	8.0	22.5	0.8	C372S105-90****								0.82	25.5	16.6	7.6	22.5	0.8	C372T824-90****
1.2	25.5	17.3	8.7	22.5	0.8	C372S125-90****								1.0	25.5	17.4	8.9	22.5	0.8	C372T105-90****
1.5	25.5	18.2	9.7	22.5	0.8	C372S155-90****								1.2	25.5	18.2	9.7	22.5	0.8	C372T125-90****

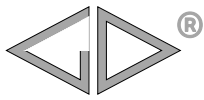
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



■ 外形尺寸 Dimensions(mm)

520Vdc							630Vdc							630Vdc							
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	
1.5	25.5	20.3	10.2	22.5	0.8	C372T155-90****	0.027	12.5	7.8	4.2	10.0	0.6	C372J273-40****	0.56	25.5	16.7	7.6	22.5	0.8	C372J564-90****	
1.8	25.5	21.3	11.2	22.5	0.8	C372T185-90****	0.033	12.5	8.1	4.5	10.0	0.6	C372J333-40****	0.68	25.5	17.4	8.3	22.5	0.8	C372J684-90****	
2.2	25.5	22.5	12.4	22.5	0.8	C372T225-90****	0.039	12.5	8.9	4.5	10.0	0.6	C372J393-40****	0.82	25.5	18.2	9.2	22.5	0.8	C372J824-90****	
0.47	30.7	11.6	6.2	27.5	0.6	C372T474-B0****	0.047	12.5	9.2	4.8	10.0	0.6	C372J473-40****	1.0	25.5	19.2	10.6	22.5	0.8	C372J105-90****	
0.56	30.7	12.1	6.6	27.5	0.6	C372T564-B0****	0.056	12.5	9.6	5.1	10.0	0.6	C372J563-40****	1.2	25.5	20.2	11.6	22.5	0.8	C372J125-90****	
0.68	30.7	12.6	7.2	27.5	0.6	C372T684-B0****	0.068	12.5	10.5	5.3	10.0	0.6	C372J683-40****	1.5	25.5	22.5	12.4	22.5	0.8	C372J155-90****	
0.82	30.7	13.8	7.8	27.5	0.8	C372T824-B0****	0.082	12.5	10.9	5.7	10.0	0.6	C372J823-40****	1.8	25.5	23.7	13.6	22.5	0.8	C372J185-90****	
1.0	30.7	14.5	9.1	27.5	0.8	C372T105-B0****	0.10	12.5	11.4	6.5	10.0	0.6	C372J104-40****	2.2	25.5	25.2	15.1	22.5	0.8	C372J225-90****	
1.2	30.7	16.2	9.2	27.5	0.8	C372T125-B0****	0.12	12.5	12.0	7.0	10.0	0.6	C372J124-40****	0.27	30.7	11.2	5.8	27.5	0.6	C372J274-B0****	
1.5	30.7	17.2	10.2	27.5	0.8	C372T155-B0****	0.15	12.5	12.7	7.8	10.0	0.6	C372J154-40****	0.33	30.7	11.7	6.3	27.5	0.6	C372J334-B0****	
1.8	30.7	19.0	10.5	27.5	0.8	C372T185-B0****	0.068	17.8	9.4	4.5	15.0	0.6	C372J683-60****	0.39	30.7	12.1	6.7	27.5	0.6	C372J394-B0****	
2.2	30.7	21.1	11.0	27.5	0.8	C372T225-B0****	0.082	17.8	9.7	4.8	15.0	0.6	C372J823-60****	0.47	30.7	12.7	7.3	27.5	0.6	C372J474-B0****	
2.7	30.7	24.4	11.1	27.5	0.8	C372T275-B0****	0.10	17.8	10.7	5.3	15.0	0.6	C372J104-60****	0.56	30.7	13.8	7.9	27.5	0.8	C372J564-B0****	
3.3	30.7	25.6	12.4	27.5	0.8	C372T335-B0****	0.12	17.8	11.0	5.6	15.0	0.6	C372J124-60****	0.68	30.7	15.5	8.0	27.5	0.8	C372J684-B0****	
3.9	30.7	26.8	13.6	27.5	0.8	C372T395-B0****	0.15	17.8	11.6	6.1	15.0	0.6	C372J154-60****	0.82	30.7	16.2	8.7	27.5	0.8	C372J824-B0****	
4.7	30.7	28.3	15.0	27.5	0.8	C372T475-B0****	0.18	17.8	12.0	6.6	15.0	0.6	C372J184-60****	1.0	30.7	18.0	9.7	27.5	0.8	C372J105-B0****	
5.6	30.7	29.8	16.6	27.5	0.8	C372T565-B0****	0.22	17.8	14.1	6.7	15.0	0.6	C372J224-60****	1.2	30.7	19.9	9.8	27.5	0.8	C372J125-B0****	
6.8	30.7	31.7	18.4	27.5	0.8	C372T685-B0****	0.27	17.8	14.8	7.3	15.0	0.6	C372J274-60****	1.5	30.7	21.1	11.0	27.5	0.8	C372J155-B0****	
8.2	30.7	33.7	20.5	27.5	0.8	C372T825-B0****	0.33	17.8	15.5	8.0	15.0	0.8	C372J334-60****	1.8	30.7	24.2	10.9	27.5	0.8	C372J185-B0****	
							0.39	17.8	16.1	8.7	15.0	0.8	C372J394-60****	2.2	30.7	25.5	12.2	27.5	0.8	C372J225-B0****	
							0.47	17.8	17.0	9.5	15.0	0.8	C372J474-60****	2.7	30.7	26.9	13.6	27.5	0.8	C372J275-B0****	
							0.56	17.8	17.8	10.3	15.0	0.8	C372J564-60****	3.3	30.7	28.5	15.2	27.5	0.8	C372J335-B0****	
							0.68	17.8	18.9	11.4	15.0	0.8	C372J684-60****	3.9	30.7	29.9	16.7	27.5	0.8	C372J395-B0****	
							0.82	17.8	20.9	11.8	15.0	0.8	C372J824-60****	4.7	30.7	31.7	18.5	27.5	0.8	C372J475-B0****	
							1.0	17.8	22.1	13.6	15.0	0.8	C372J105-60****	5.6	30.7	33.6	20.3	27.5	0.8	C372J565-B0****	
							0.22	25.5	11.3	5.9	22.5	0.6	C372J224-90****								
							0.27	25.5	11.8	6.4	22.5	0.6	C372J274-90****								
							0.33	25.5	12.3	6.9	22.5	0.6	C372J334-90****								
							0.39	25.5	14.4	6.9	22.5	0.6	C372J394-90****								
							0.47	25.5	15.0	7.5	22.5	0.8	C372J474-90****								

备注 **Note:** 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code(refer to table 1).



C14
CBB81 series

高压金属化聚丙烯膜/箔式电容器 High-voltage metallized polypropylene film/foil capacitor

外形图 Outline Drawing

	Forming Lead Shapes			
	I	II	III	IV
	$P \geq F$		$P < F$	
	$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
	$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$			

特点

- 金属化聚丙烯膜箔式，卷绕结构
- 损耗小，内部温升小
- 负电容量温度系数
- 阻燃环氧粉末包封（UL94/V-0）

Features

- Metallized polypropylene film/foil, wound construction
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Flame retardant epoxy resin powder coating(UL94/V-0)

主要用途

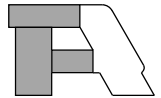
- 大屏幕显示器行逆程电路
- 适用于高脉冲，大电流电路
- 适用于电子镇流器

Typical Applications

- Horizontal resonance circuits of large screen monitor
- Suitable for high pulse and high current loading circuit
- Suitable for electronic ballast

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)		
气候类别 Climatic Category	40/105/21		
额定温度 Rated Temperature	85°C		
工作温度 Operating Temperature Range	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)		
额定电压 Rated Voltage	630V, 800V, 1 000V, 1 250V, 1 600V, 2 000V, 2 500V		
电容量范围 Capacitance Range	0.0010μF~0.036μF		
电容量偏差 Capacitance Tolerance	±3%(H), ±5%(J), ±10%(K)		
耐电压 Voltage Proof	1.75 U_R (5s)		
损耗角正切 Dissipation Factor	$\leq 10 \times 10^{-4}$ (20°C, 1kHz) $\leq 20 \times 10^{-4}$ (20°C, 10kHz)		
绝缘电阻 Insulation Resistance	$\geq 100\ 000\ \text{M}\Omega$ (20°C, 100V, 1min)		
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低，电容器可工作在更高的 dV/dt 场合，这样 dV/dt 允许值应为右表值乘以 U_R/U 。 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	Pattern II		
	$U_R(V)$	dV/dt(V/μs)	
		P=15.0	
	630/800	11 000	
	1 000/1 250	28 000	
	1 600	32 000	
2 000	35 000		
2 500	40 000		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

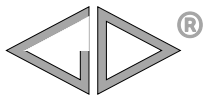
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	1	4												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C14= CBB81		C14= CBB81
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2J=630V 2K=800V 3A=1 000V		2J=630V 2K=800V 3A=1 000V
	3L=1 200V 3B=1 250V 3C=1 600V		3L=1 200V 3B=1 250V 3C=1 600V
	3D=2 000V 3E=2 500V		3D=2 000V 3E=2 500V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	H=±3%, J=±5%, K=±10%		G=±2%, H=±3%, J=±5%
第 10 位	引线脚距 P	Digit 10	Pitch
	6=15.0mm 8=19.0mm 9=22.5mm		6=15.0mm 8=19.0mm 9=22.5mm
	A=25.0mm B=27.0mm		A=25.0mm B=27.0mm
第 11 位	内部特征码	Digit 11	Internal use
	S=CBB81 II 型		S= CBB81 Pattern II
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	6	F=15.0mm	1	表示弯脚 kinked	E	P3=25.4mm; H=20.0mm(For pitch=15.0mm) (Detail parameter refer to page 17)
F	引线成型 lead kinked	6	F=15.0mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
		7	F=17.5mm				
		8	F=20.0mm				
		9	F=22.5mm				
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation			0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				
第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm) Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)							



C14

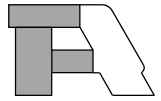
CBB81 series

外形尺寸 Dimensions(mm) Pattern II (Reduced sizes)

630/800Vdc(400Vac) [#]						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.1	5.7	15.0	0.8	C142K102-6S****
0.0012	18.0	10.5	6.0	15.0	0.8	C142K122-6S****
0.0015	18.0	11.0	6.5	15.0	0.8	C142K152-6S****
0.0016	18.0	11.6	6.4	15.0	0.8	C142K162-6S****
0.0018	18.0	11.9	6.7	15.0	0.8	C142K182-6S****
0.0020	18.0	12.2	7.0	15.0	0.8	C142K202-6S****
0.0022	18.0	12.5	7.3	15.0	0.8	C142K222-6S****
0.0024	18.0	12.7	7.5	15.0	0.8	C142K242-6S****
0.0027	18.0	13.1	7.9	15.0	0.8	C142K272-6S****
0.0030	18.0	13.5	8.3	15.0	0.8	C142K302-6S****
0.0033	18.0	13.8	8.6	15.0	0.8	C142K332-6S****
0.0036	18.0	11.7	6.5	15.0	0.8	C142K362-6S****
0.0039	18.0	12.0	6.7	15.0	0.8	C142K392-6S****
0.0043	18.0	12.2	7.0	15.0	0.8	C142K432-6S****
0.0047	18.0	12.5	7.3	15.0	0.8	C142K472-6S****
0.0049	18.0	11.9	6.7	15.0	0.8	C142K492-6S****
0.0051	18.0	12.0	6.8	15.0	0.8	C142K512-6S****
0.0053	18.0	12.1	6.9	15.0	0.8	C142K532-6S****
0.0056	18.0	11.5	6.2	15.0	0.8	C142K562-6S****
0.0060	18.0	11.6	6.4	15.0	0.8	C142K602-6S****
0.0062	18.0	11.7	6.5	15.0	0.8	C142K622-6S****
0.0065	18.0	11.8	6.6	15.0	0.8	C142K652-6S****
0.0068	18.0	12.0	6.8	15.0	0.8	C142K682-6S****
0.0072	18.0	12.1	6.9	15.0	0.8	C142K722-6S****
0.0075	18.0	12.2	7.0	15.0	0.8	C142K752-6S****
0.0078	18.0	12.4	7.1	15.0	0.8	C142K782-6S****
0.0082	18.0	12.5	7.3	15.0	0.8	C142K822-6S****
0.0084	18.0	12.6	7.4	15.0	0.8	C142K842-6S****
0.0091	18.0	12.8	7.6	15.0	0.8	C142K912-6S****
0.010	18.0	13.2	8.0	15.0	0.8	C142K103-6S****
0.012	18.0	11.4	6.2	15.0	0.8	C142K123-6S****
0.015	18.0	12.0	6.8	15.0	0.8	C142K153-6S****
0.018	18.0	12.6	7.4	15.0	0.8	C142K183-6S****
0.022	18.0	13.8	8.1	15.0	0.8	C142K223-6S****
0.024	18.0	14.1	8.4	15.0	0.8	C142K243-6S****
0.027	18.0	14.6	8.9	15.0	0.8	C142K273-6S****
0.033	18.0	16.4	9.1	15.0	0.8	C142K333-6S****
0.036	18.0	16.8	9.5	15.0	0.8	C142K363-6S****

1 000 / 1 250Vdc(450Vac) [#]						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.1	5.7	15.0	0.8	C143A102-6S****
0.0012	18.0	10.5	6.0	15.0	0.8	C143A122-6S****
0.0015	18.0	11.0	6.5	15.0	0.8	C143A152-6S****
0.0016	18.0	11.6	6.4	15.0	0.8	C143A162-6S****
0.0018	18.0	11.9	6.7	15.0	0.8	C143A182-6S****
0.0020	18.0	12.2	7.0	15.0	0.8	C143A202-6S****
0.0022	18.0	12.5	7.3	15.0	0.8	C143A222-6S****
0.0024	18.0	12.7	7.5	15.0	0.8	C143A242-6S****
0.0027	18.0	13.6	7.9	15.0	0.8	C143A272-6S****
0.0030	18.0	14.0	8.3	15.0	0.8	C143A302-6S****
0.0033	18.0	14.3	8.6	15.0	0.8	C143A332-6S****
0.0036	18.0	11.7	6.5	15.0	0.8	C143A362-6S****
0.0039	18.0	12.0	6.7	15.0	0.8	C143A392-6S****
0.0043	18.0	12.2	7.0	15.0	0.8	C143A432-6S****
0.0047	18.0	12.5	7.3	15.0	0.8	C143A472-6S****
0.0049	18.0	12.6	7.4	15.0	0.8	C143A492-6S****
0.0051	18.0	12.8	7.5	15.0	0.8	C143A512-6S****
0.0053	18.0	12.9	7.7	15.0	0.8	C143A532-6S****
0.0056	18.0	12.1	6.9	15.0	0.8	C143A562-6S****
0.0060	18.0	12.3	7.1	15.0	0.8	C143A602-6S****
0.0062	18.0	12.4	7.2	15.0	0.8	C143A622-6S****
0.0065	18.0	12.6	7.4	15.0	0.8	C143A652-6S****
0.0068	18.0	12.7	7.5	15.0	0.8	C143A682-6S****
0.0072	18.0	12.9	7.7	15.0	0.8	C143A722-6S****
0.0075	18.0	13.5	7.8	15.0	0.8	C143A752-6S****
0.0078	18.0	13.7	8.0	15.0	0.8	C143A782-6S****
0.0082	18.0	13.9	8.1	15.0	0.8	C143A822-6S****
0.0084	18.0	13.9	8.2	15.0	0.8	C143A842-6S****
0.0091	18.0	14.2	9.0	15.0	0.8	C143A912-6S****
0.010	18.0	14.6	9.4	15.0	0.8	C143A103-6S****
0.012	18.0	15.4	10.2	15.0	0.8	C143A123-6S****
0.015	18.0	14.9	9.7	15.0	0.8	C143A153-6S****
0.018	18.0	15.7	10.5	15.0	0.8	C143A183-6S****
0.022	18.0	16.7	11.5	15.0	0.8	C143A223-6S****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1)。
 3. “#”当额定电压为 630Vdc 时,第 4~5 位是 2J。“#”when the rated voltage is 630Vdc, the digit 4~5 is 2J。
 “#”当额定电压为 1 250Vdc 时,第 4~5 位是 3B。“#”when the rated voltage is 1 250Vdc, the digit 4~5 is 3B。



■ 外形尺寸 Dimensions(mm)
Pattern II (Reduced sizes)

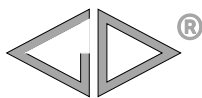
1 600Vdc(450Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.4	6.0	15.0	0.8	C143C102-6S****
0.0012	18.0	10.8	6.4	15.0	0.8	C143C122-6S****
0.0015	18.0	11.3	6.9	15.0	0.8	C143C152-6S****
0.0016	18.0	12.0	6.8	15.0	0.8	C143C162-6S****
0.0018	18.0	12.3	7.1	15.0	0.8	C143C182-6S****
0.0020	18.0	12.7	7.4	15.0	0.8	C143C202-6S****
0.0022	18.0	12.9	7.7	15.0	0.8	C143C222-6S****
0.0024	18.0	13.7	8.0	15.0	0.8	C143C242-6S****
0.0027	18.0	11.4	6.2	15.0	0.8	C143C272-6S****
0.0030	18.0	11.7	6.5	15.0	0.8	C143C302-6S****
0.0033	18.0	11.9	6.7	15.0	0.8	C143C332-6S****
0.0036	18.0	11.4	6.2	15.0	0.8	C143C362-6S****
0.0039	18.0	11.6	6.4	15.0	0.8	C143C392-6S****
0.0043	18.0	11.8	6.6	15.0	0.8	C143C432-6S****
0.0047	18.0	12.1	6.9	15.0	0.8	C143C472-6S****
0.0049	18.0	12.2	7.0	15.0	0.8	C143C492-6S****
0.0051	18.0	12.3	7.1	15.0	0.8	C143C512-6S****
0.0053	18.0	12.4	7.2	15.0	0.8	C143C532-6S****
0.0056	18.0	12.6	7.4	15.0	0.8	C143C562-6S****
0.0060	18.0	12.8	7.6	15.0	0.8	C143C602-6S****
0.0062	18.0	12.9	7.7	15.0	0.8	C143C622-6S****
0.0065	18.0	13.6	7.9	15.0	0.8	C143C652-6S****
0.0068	18.0	13.7	8.0	15.0	0.8	C143C682-6S****
0.0072	18.0	13.9	8.2	15.0	0.8	C143C722-6S****
0.0075	18.0	14.1	8.4	15.0	0.8	C143C752-6S****
0.0078	18.0	14.2	9.0	15.0	0.8	C143C782-6S****
0.0082	18.0	14.4	9.2	15.0	0.8	C143C822-6S****
0.0084	18.0	14.5	9.3	15.0	0.8	C143C842-6S****
0.0091	18.0	14.9	9.6	15.0	0.8	C143C912-6S****
0.010	18.0	15.3	10.0	15.0	0.8	C143C103-6S****
0.012	18.0	16.1	10.9	15.0	0.8	C143C123-6S****

2 000Vdc(500Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.4	6.0	15.0	0.8	C143D102-6S****
0.0012	18.0	10.8	6.4	15.0	0.8	C143D122-6S****
0.0015	18.0	11.3	6.9	15.0	0.8	C143D152-6S****
0.0016	18.0	12.0	6.8	15.0	0.8	C143D162-6S****
0.0018	18.0	12.3	7.1	15.0	0.8	C143D182-6S****
0.0020	18.0	12.7	7.4	15.0	0.8	C143D202-6S****
0.0022	18.0	12.9	7.7	15.0	0.8	C143D222-6S****
0.0024	18.0	11.8	6.6	15.0	0.8	C143D242-6S****
0.0027	18.0	12.1	6.9	15.0	0.8	C143D272-6S****
0.0030	18.0	12.4	7.2	15.0	0.8	C143D302-6S****
0.0033	18.0	12.7	7.5	15.0	0.8	C143D332-6S****
0.0036	18.0	12.2	7.0	15.0	0.8	C143D362-6S****
0.0039	18.0	12.4	7.2	15.0	0.8	C143D392-6S****
0.0043	18.0	12.7	7.5	15.0	0.8	C143D432-6S****
0.0047	18.0	13.5	7.8	15.0	0.8	C143D472-6S****
0.0049	18.0	13.7	8.0	15.0	0.8	C143D492-6S****
0.0051	18.0	13.8	8.1	15.0	0.8	C143D512-6S****
0.0053	18.0	13.9	8.2	15.0	0.8	C143D532-6S****
0.0056	18.0	14.2	8.4	15.0	0.8	C143D562-6S****
0.0060	18.0	14.4	9.2	15.0	0.8	C143D602-6S****
0.0062	18.0	14.5	9.3	15.0	0.8	C143D622-6S****
0.0065	18.0	14.7	9.5	15.0	0.8	C143D652-6S****
0.0068	18.0	14.9	9.7	15.0	0.8	C143D682-6S****
0.0072	18.0	15.2	9.9	15.0	0.8	C143D722-6S****
0.0075	18.0	15.3	10.1	15.0	0.8	C143D752-6S****
0.0078	18.0	15.5	10.3	15.0	0.8	C143D782-6S****
0.0082	18.0	15.7	10.5	15.0	0.8	C143D822-6S****
0.0084	18.0	15.8	10.6	15.0	0.8	C143D842-6S****
0.0091	18.0	16.2	11.0	15.0	0.8	C143D912-6S****
0.010	18.0	16.7	11.5	15.0	0.8	C143D103-6S****

2 500Vdc(500Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.4	6.0	15.0	0.8	C143E102-6S****
0.0012	18.0	10.8	6.4	15.0	0.8	C143E122-6S****
0.0015	18.0	11.3	6.9	15.0	0.8	C143E152-6S****
0.0016	18.0	12.0	6.8	15.0	0.8	C143E162-6S****
0.0018	18.0	12.3	7.1	15.0	0.8	C143E182-6S****
0.0020	18.0	12.7	7.4	15.0	0.8	C143E202-6S****
0.0022	18.0	12.9	7.7	15.0	0.8	C143E222-6S****
0.0024	18.0	11.8	6.6	15.0	0.8	C143E242-6S****
0.0027	18.0	12.1	6.9	15.0	0.8	C143E272-6S****
0.0030	18.0	12.4	7.2	15.0	0.8	C143E302-6S****
0.0033	18.0	12.7	7.5	15.0	0.8	C143E332-6S****
0.0036	18.0	13.5	7.8	15.0	0.8	C143E362-6S****
0.0039	18.0	13.8	8.1	15.0	0.8	C143E392-6S****

2 500Vdc(500Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0043	18.0	14.1	8.4	15.0	0.8	C143E432-6S****
0.0047	18.0	14.5	9.3	15.0	0.8	C143E472-6S****
0.0049	18.0	14.6	9.4	15.0	0.8	C143E492-6S****
0.0051	18.0	14.8	9.6	15.0	0.8	C143E512-6S****
0.0053	18.0	15.0	9.7	15.0	0.8	C143E532-6S****
0.0056	18.0	15.2	10.0	15.0	0.8	C143E562-6S****
0.0060	18.0	15.5	10.3	15.0	0.8	C143E602-6S****
0.0062	18.0	15.6	10.4	15.0	0.8	C143E622-6S****
0.0065	18.0	15.9	10.6	15.0	0.8	C143E652-6S****
0.0068	18.0	16.1	10.9	15.0	0.8	C143E682-6S****
0.0072	18.0	16.3	11.1	15.0	0.8	C143E722-6S****
0.0075	18.0	16.5	11.3	15.0	0.8	C143E752-6S****
0.0078	18.0	16.7	11.5	15.0	0.8	C143E782-6S****

备注 Note: 1. “-”表示容量偏差。 “.”=capacitance tolerance code. M=±20%, K=±10%, J=±5%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



C13
CBB13 series

无感箔式聚丙烯膜电容器 Polypropylene film/foil capacitor(Non-inductive)

■ 外形图 Outline Drawing

		Forming Lead Shapes			
		I	II	III	IV
		$P \geq F$		$P < F$	
		$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
		$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$			

■ 特点

- 膜箔式电容器, 无感卷绕结构, 浸渍型
- 优异的频率和温度特性
- 即使在高频下, 损耗也极小
- 阻燃环氧粉末包封 (UL94/V-0)

■ 主要用途

- 广泛用于高频、直流和脉冲电路中

■ Features

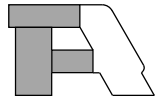
- Film/foil, non-inductive wound type, dipped
- Excellent frequency and temperature characteristics
- Very small loss even at high frequency
- Flame retardant epoxy resin powder coating(UL94/V-0)

■ Typical Applications

- Widely used in high frequency, DC and pulse circuits

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 10188 (IEC 60384-13)
气候类别 Climatic Category	40/105/21
额定温度 Rated Temperature	85°C
工作温度 Operating Temperature Range	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)
额定电压 Rated Voltage	100V, 160V, 200V, 250V, 400V, 630V, 800V
电容量范围 Capacitance Range	0.0010 μ F~0.10 μ F
电容量偏差 Capacitance Tolerance	$\pm 2\%$ (G), $\pm 5\%$ (J), $\pm 10\%$ (K)
耐电压 Voltage Proof	2.0 U_R (5s)
损耗角正切 Dissipation Factor	$\leq 10 \times 10^{-4}$ (20°C, 1kHz)
绝缘电阻 Insulation Resistance	$R \geq 50\ 000\ \Omega$, $C_N \leq 0.1\ \mu\text{F}$ $RC_N \geq 5000\text{s}$, $C_N > 0.1\ \mu\text{F}$ (20°C, 100V, 1min)



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

The 15 digits part number is formed as follow:

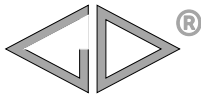
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	1	3												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C13= CBB13		C13= CBB13
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	2A=100V 2C=160V 2D=200V 2E=250V 2E=250V 2J=630V 2K=800V		2A=100V 2C=160V 2D=200V 2E=250V 2E=250V 2J=630V 2K=800V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	G=±2%, J=±5%, K=±10%		G=±2%, H=±3%, J=±5%
第 10 位	引线脚距 P	Digit 10	Pitch
	0 代表所有的脚距		0 代表所有的脚距
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm
		4	F=10.0mm			E	P3=25.4mm; H=20.0mm
		6	F=15.0mm				(Detail parameter refer to page 17)
F	引线成型 lead kinked	3	F=7.5mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
		4	F=10.0mm				
		6	F=15.0mm				
		9	F=22.5mm				
Y	直脚 straight lead “Y” in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)



C13

CBB13 series

■ 外形尺寸 Dimensions(mm)

100Vdc							160Vdc							200Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	9.0	8.5	4.5	6.5	0.6	C132A102-00****	0.0010	10.0	9.0	5.0	6.5	0.6	C132C102-00****	0.0010	14.5	10.0	6.0	11.0	0.6	C132D102-00****
0.0012	9.0	9.0	5.0	6.5	0.6	C132A122-00****	0.0012	10.0	9.5	5.5	6.5	0.6	C132C122-00****	0.0012	14.5	10.5	6.5	11.0	0.6	C132D122-00****
0.0015	9.0	9.5	5.5	6.5	0.6	C132A152-00****	0.0015	10.0	9.5	5.5	6.5	0.6	C132C152-00****	0.0015	14.5	10.5	6.5	11.0	0.6	C132D152-00****
0.0016	9.0	9.5	5.5	6.5	0.6	C132A162-00****	0.0016	10.0	9.5	5.5	6.5	0.6	C132C162-00****	0.0016	14.5	10.5	6.0	11.0	0.6	C132D162-00****
0.0018	9.0	9.5	5.5	6.5	0.6	C132A182-00****	0.0018	10.0	10.0	6.0	6.5	0.6	C132C182-00****	0.0018	14.5	11.0	6.0	11.0	0.6	C132D182-00****
0.0020	9.0	8.5	4.5	6.5	0.6	C132A202-00****	0.0020	10.0	9.0	5.5	6.5	0.6	C132C202-00****	0.0020	14.5	11.0	6.5	11.0	0.6	C132D202-00****
0.0022	9.0	8.5	4.5	6.5	0.6	C132A222-00****	0.0022	10.0	9.5	5.5	6.5	0.6	C132C222-00****	0.0022	14.5	11.0	6.5	11.0	0.6	C132D222-00****
0.0024	9.0	8.5	5.0	6.5	0.6	C132A242-00****	0.0024	10.0	9.5	5.5	6.5	0.6	C132C242-00****	0.0024	14.5	11.5	6.5	11.0	0.6	C132D242-00****
0.0027	9.0	9.0	5.0	6.5	0.6	C132A272-00****	0.0027	10.0	9.5	5.5	6.5	0.6	C132C272-00****	0.0027	14.5	11.5	7.0	11.0	0.6	C132D272-00****
0.0030	9.0	9.0	5.0	6.5	0.6	C132A302-00****	0.0030	10.0	10.0	6.0	6.5	0.6	C132C302-00****	0.0030	14.5	11.5	7.0	11.0	0.6	C132D302-00****
0.0033	9.0	9.0	5.5	6.5	0.6	C132A332-00****	0.0033	10.0	10.0	6.0	6.5	0.6	C132C332-00****	0.0033	14.5	12.0	7.0	11.0	0.6	C132D332-00****
0.0036	9.0	9.5	5.5	6.5	0.6	C132A362-00****	0.0036	10.0	10.0	6.0	6.5	0.6	C132C362-00****	0.0036	14.5	12.0	7.5	11.0	0.6	C132D362-00****
0.0039	9.0	9.5	5.5	6.5	0.6	C132A392-00****	0.0039	10.0	10.0	6.5	6.5	0.6	C132C392-00****	0.0039	14.5	12.5	7.5	11.0	0.6	C132D392-00****
0.0043	9.0	9.0	5.0	6.5	0.6	C132A432-00****	0.0043	10.0	10.5	6.5	6.5	0.6	C132C432-00****	0.0043	14.5	12.5	8.0	11.0	0.6	C132D432-00****
0.0047	9.0	9.0	5.0	6.5	0.6	C132A472-00****	0.0047	10.0	10.5	6.5	6.5	0.6	C132C472-00****	0.0047	14.5	13.0	8.0	11.0	0.6	C132D472-00****
0.0051	9.0	9.5	5.5	6.5	0.6	C132A512-00****	0.0051	12.0	10.0	5.5	8.5	0.6	C132C512-00****	0.0051	18.0	11.5	6.5	14.0	0.6	C132D512-00****
0.0056	9.0	9.5	5.5	6.5	0.6	C132A562-00****	0.0056	12.0	10.5	5.5	8.5	0.6	C132C562-00****	0.0056	18.0	12.0	6.5	14.0	0.6	C132D562-00****
0.0062	9.0	9.5	6.0	6.5	0.6	C132A622-00****	0.0062	12.0	10.5	6.0	8.5	0.6	C132C622-00****	0.0062	18.0	12.0	7.0	14.0	0.6	C132D622-00****
0.0068	9.0	10.0	6.0	6.5	0.6	C132A682-00****	0.0068	12.0	10.5	6.0	8.5	0.6	C132C682-00****	0.0068	18.0	12.5	7.0	14.0	0.6	C132D682-00****
0.0075	10.0	9.5	6.0	7.5	0.6	C132A752-00****	0.0075	12.0	11.0	6.0	8.5	0.6	C132C752-00****	0.0075	18.0	12.5	7.5	14.0	0.6	C132D752-00****
0.0082	10.0	10.0	6.0	7.5	0.6	C132A822-00****	0.0082	12.0	11.0	6.5	8.5	0.6	C132C822-00****	0.0082	18.0	13.0	7.5	14.0	0.6	C132D822-00****
0.0091	10.0	10.0	6.0	7.5	0.6	C132A912-00****	0.0091	12.0	11.0	6.5	8.5	0.6	C132C912-00****	0.0091	18.0	14.0	7.5	14.0	0.6	C132D912-00****
0.010	10.0	10.5	6.5	7.5	0.6	C132A103-00****	0.010	12.0	11.5	6.5	8.5	0.6	C132C103-00****	0.010	18.0	14.5	7.5	14.0	0.6	C132D103-00****
0.012	10.0	11.0	7.0	7.5	0.6	C132A123-00****	0.012	12.0	12.0	7.0	8.5	0.6	C132C123-00****	0.012	18.0	15.0	8.0	14.0	0.6	C132D123-00****
0.015	12.0	10.5	6.5	8.5	0.6	C132A153-00****	0.015	12.0	12.5	7.5	8.5	0.6	C132C153-00****	0.015	18.0	11.0	6.0	14.0	0.6	C132D153-00****
0.016	12.0	10.5	6.5	8.5	0.6	C132A163-00****	0.016	12.0	12.5	8.0	8.5	0.6	C132C163-00****	0.016	18.0	11.0	6.0	14.0	0.6	C132D163-00****
0.018	12.0	10.5	7.0	8.5	0.6	C132A183-00****	0.018	12.0	13.0	8.0	8.5	0.6	C132C183-00****	0.018	18.0	11.5	6.0	14.0	0.6	C132D183-00****
0.020	12.0	11.0	7.0	8.5	0.6	C132A203-00****	0.020	15.0	12.0	7.0	11.0	0.6	C132C203-00****	0.020	18.0	11.5	6.5	14.0	0.6	C132D203-00****
0.022	12.0	11.0	7.5	8.5	0.6	C132A223-00****	0.022	15.0	12.5	7.0	11.0	0.6	C132C223-00****	0.022	18.0	11.5	6.5	14.0	0.6	C132D223-00****
0.024	12.0	11.5	7.5	8.5	0.6	C132A243-00****	0.024	15.0	12.5	7.0	11.0	0.6	C132C243-00****	0.024	18.0	12.0	6.5	14.0	0.6	C132D243-00****
0.027	12.0	12.0	8.0	8.5	0.6	C132A273-00****	0.027	15.0	12.5	7.5	11.0	0.6	C132C273-00****	0.027	18.0	13.5	6.5	14.0	0.6	C132D273-00****
0.030	13.5	11.5	6.5	10.0	0.6	C132A303-00****	0.030	17.0	12.0	7.0	13.0	0.6	C132C303-00****	0.030	18.0	13.5	6.5	14.0	0.6	C132D303-00****
0.033	13.5	11.5	7.0	10.0	0.6	C132A333-00****	0.033	17.0	12.5	7.5	13.0	0.6	C132C333-00****	0.033	18.0	13.5	7.0	14.0	0.6	C132D333-00****
0.036	13.5	12.0	7.0	10.0	0.6	C132A363-00****	0.036	17.0	12.5	7.5	13.0	0.6	C132C363-00****	0.036	18.0	14.0	7.0	14.0	0.6	C132D363-00****
0.039	13.5	12.0	7.5	10.0	0.6	C132A393-00****	0.039	17.0	13.0	7.5	13.0	0.6	C132C393-00****	0.039	18.0	14.5	7.5	14.0	0.6	C132D393-00****
0.043	13.5	12.5	7.5	10.0	0.6	C132A433-00****	0.043	17.0	13.0	8.0	13.0	0.6	C132C433-00****	0.043	18.0	14.5	7.5	14.0	0.6	C132D433-00****
0.047	13.5	12.5	8.0	10.0	0.6	C132A473-00****	0.047	17.0	13.5	8.5	13.0	0.6	C132C473-00****	0.047	18.0	14.58	8.0	14.0	0.6	C132D473-00****
0.051	13.5	13.0	8.0	10.0	0.6	C132A513-00****	0.051	17.0	14.0	8.5	13.0	0.6	C132C513-00****	0.051	22.5	14.0	7.0	19.0	0.8	C132D513-00****
0.056	13.5	13.0	8.5	10.0	0.6	C132A563-00****	0.056	17.0	14.0	9.0	13.0	0.6	C132C563-00****	0.056	22.5	14.0	7.5	19.0	0.8	C132D563-00****
0.062	17.0	12.5	7.5	13.0	0.6	C132A623-00****	0.062	17.0	14.5	9.0	13.0	0.6	C132C623-00****	0.062	22.5	15.5	7.5	19.0	0.8	C132D623-00****
0.068	17.0	13.0	7.5	13.0	0.6	C132A683-00****	0.068	17.0	15.0	9.5	13.0	0.6	C132C683-00****	0.068	22.5	16.0	7.5	19.0	0.8	C132D683-00****
0.075	17.0	13.0	8.0	13.0	0.6	C132A753-00****	0.075	22.5	13.5	8.0	19.0	0.8	C132C753-00****	0.075	22.5	16.0	8.0	19.0	0.8	C132D753-00****
0.082	17.0	13.5	8.0	13.0	0.6	C132A823-00****	0.082	22.5	13.5	8.5	19.0	0.8	C132C823-00****	0.082	22.5	16.5	8.0	19.0	0.8	C132D823-00****
0.091	17.0	14.0	8.5	13.0	0.6	C132A913-00****	0.091	22.5	14.0	9.0	19.0	0.8	C132C913-00****	0.091	22.5	17.0	8.5	19.0	0.8	C132D913-00****
0.10	17.0	14.0	8.5	13.0	0.6	C132A104-00****	0.10	22.5	14.5	9.0	19.0	0.8	C132C104-00****	0.10	22.5	17.0	9.0	19.0	0.8	C132D104-00****

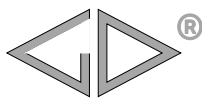
250Vdc							250Vdc							250Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	12.0	9.5	5.5	8.5	0.6	C132E102-00****	0.0051	12.0	10.5	6.5	8.5	0.6	C132E512-00****	0.027	18.0	13.5	7.0	14.0	0.6	C132E273-00****
0.0012	12.0	10.0	6.0	8.5	0.6	C132E122-00****	0.0056	12.0	10.5	6.5	8.5	0.6	C132E562-00****	0.030	18.0	14.0	7.0	14.0	0.6	C132E303-00****
0.0015	12.0	10.0	6.5	8.5	0.6	C132E152-00****	0.0062	12.0	10.5	7.0	8.5	0.6	C132E622-00****	0.033	18.0	14.0	7.5	14.0	0.6	C132E333-00****
0.0016	12.0	10.5	6.5	8.5	0.6	C132E162-00****	0.0068	12.0	11.0	7.0	8.5	0.6	C132E682-00****	0.036	18.0	14.5	7.5	14.0	0.6	C132E363-00****
0.0018	12.0	10.5	6.5	8.5	0.6	C132E182-00****	0.0075	13.5	10.5	6.5	10.0	0.6	C132E752-00****	0.039	18.0	14.5	8.0	14.0	0.6	C132E393-00****
0.0020	12.0	9.5	5.5	8.5	0.6	C132E202-00****	0.0082	13.5	10.5	6.5	10.0	0.6	C132E822-00****	0.043	18.0	15.0	8.0	14.0	0.6	C132E433-00****
0.0022	12.0	9.5	5.5	8.5	0.6	C132E222-00****	0.0091	13.5	10.5	6.5	10.0	0.6	C132E912-00****	0.047	18.0	15.5	8.5	14.0	0.6	C132E473-00****
0.0024	12.0	9.5	5.5	8.5	0.6	C132E242-00****	0.010	13.5	11.0	7.0	10.0	0.6	C132E103-00****	0.051	22.5	15.5	7.5	19.0	0.8	C132E513-00****
0.0027	12.0	10.0	6.0	8.5	0.6	C132E272-00****	0.012	18.0	11.0	6.0	14.0	0.6	C132E123-00****	0.056	22.5	16.0	8.0	19.0	0.8	C132E563-00****
0.0030	12.0	10.0	6.0	8.5	0.6	C132E302-00****	0.015	18.0	11.5	6.0	14.0	0.6	C132E153-00****	0.062	22.5	16.0	8.5	19.0	0.8	C132E623-00****
0.0033	12.0	10.0	6.0	8.5	0.6	C														



■ 外形尺寸 Dimensions(mm)

400Vdc							630Vdc							800Vdc						
C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number	C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	13.5	10.0	6.0	10.0	0.6	C132G102-00****	0.0010	14.5	10.0	6.0	11.0	0.6	C132J102-00****	0.0010	14.5	10.0	6.0	11.0	0.6	C132K102-00****
0.0012	13.5	10.5	6.5	10.0	0.6	C132G122-00****	0.0012	14.5	10.5	6.5	11.0	0.6	C132J122-00****	0.0012	14.5	10.0	6.0	11.0	0.6	C132K122-00****
0.0015	13.5	10.5	6.5	10.0	0.6	C132G152-00****	0.0015	14.5	10.5	6.5	11.0	0.6	C132J152-00****	0.0015	14.5	10.5	6.5	11.0	0.6	C132K152-00****
0.0016	13.5	10.0	6.0	10.0	0.6	C132G162-00****	0.0016	14.5	10.5	6.0	11.0	0.6	C132J162-00****	0.0016	14.5	10.5	6.5	11.0	0.6	C132K162-00****
0.0018	13.5	10.0	6.5	10.0	0.6	C132G182-00****	0.0018	14.5	11.0	6.0	11.0	0.6	C132J182-00****	0.0018	14.5	11.0	7.0	11.0	0.6	C132K182-00****
0.0020	13.5	9.0	5.5	10.0	0.6	C132G202-00****	0.0020	14.5	11.0	6.5	11.0	0.6	C132J202-00****	0.0020	16.0	11.0	6.5	12.5	0.6	C132K202-00****
0.0022	13.5	9.5	5.5	10.0	0.6	C132G222-00****	0.0022	14.5	11.0	6.5	11.0	0.6	C132J222-00****	0.0022	16.0	11.5	6.5	12.5	0.6	C132K222-00****
0.0024	13.5	9.5	5.5	10.0	0.6	C132G242-00****	0.0024	14.5	11.5	6.5	11.0	0.6	C132J242-00****	0.0024	16.0	11.5	6.5	12.5	0.6	C132K242-00****
0.0027	13.5	9.5	5.5	10.0	0.6	C132G272-00****	0.0027	14.5	11.5	7.0	11.0	0.6	C132J272-00****	0.0027	16.0	11.5	7.0	12.5	0.6	C132K272-00****
0.0030	13.5	9.5	6.0	10.0	0.6	C132G302-00****	0.0030	14.5	11.5	7.0	11.0	0.6	C132J302-00****	0.0030	16.0	12.0	7.0	12.5	0.6	C132K302-00****
0.0033	13.5	10.0	6.0	10.0	0.6	C132G332-00****	0.0033	14.5	12.0	7.0	11.0	0.6	C132J332-00****	0.0033	16.0	12.0	7.5	12.5	0.6	C132K332-00****
0.0036	15.0	11.0	5.5	11.0	0.6	C132G362-00****	0.0036	14.5	12.0	7.5	11.0	0.6	C132J362-00****	0.0036	16.0	12.5	7.5	12.5	0.6	C132K362-00****
0.0039	15.0	11.0	6.0	11.0	0.6	C132G392-00****	0.0039	14.5	12.5	7.5	11.0	0.6	C132J392-00****	0.0039	16.0	12.5	8.0	12.5	0.6	C132K392-00****
0.0043	15.0	11.0	6.0	11.0	0.6	C132G432-00****	0.0043	14.5	12.5	8.0	11.0	0.6	C132J432-00****	0.0043	18.0	12.5	7.5	14.0	0.6	C132K432-00****
0.0047	15.0	11.5	6.0	11.0	0.6	C132G472-00****	0.0047	14.5	13.0	8.0	11.0	0.6	C132J472-00****	0.0047	18.0	13.0	7.5	14.0	0.6	C132K472-00****
0.0051	15.0	11.5	6.5	11.0	0.6	C132G512-00****	0.0051	18.0	11.5	6.5	14.0	0.6	C132J512-00****	0.0051	18.0	13.0	8.0	14.0	0.6	C132K512-00****
0.0056	15.0	11.5	6.5	11.0	0.6	C132G562-00****	0.0056	18.0	12.0	6.5	14.0	0.6	C132J562-00****	0.0056	18.0	13.5	8.0	15.0	0.8	C132K562-00****
0.0062	15.0	12.0	6.5	11.0	0.6	C132G622-00****	0.0062	18.0	12.0	7.0	14.0	0.6	C132J622-00****	0.0062	18.0	14.5	8.0	15.0	0.8	C132K622-00****
0.0068	15.0	12.0	7.0	11.0	0.6	C132G682-00****	0.0068	18.0	12.5	7.0	14.0	0.6	C132J682-00****	0.0068	18.0	15.0	8.0	15.0	0.8	C132K682-00****
0.0075	15.0	12.0	7.0	11.0	0.6	C132G752-00****	0.0075	18.0	12.5	7.5	14.0	0.6	C132J752-00****	0.0075	18.0	15.5	8.5	15.0	0.8	C132K752-00****
0.0082	15.0	12.5	7.0	11.0	0.6	C132G822-00****	0.0082	18.0	13.0	7.5	14.0	0.6	C132J822-00****	0.0082	18.0	15.5	8.5	15.0	0.8	C132K822-00****
0.0091	15.0	12.5	7.5	11.0	0.6	C132G912-00****	0.0091	18.0	14.0	7.5	14.0	0.6	C132J912-00****	0.0091	22.5	14.5	8.0	19.0	0.8	C132K912-00****
0.010	15.0	13.0	8.0	11.0	0.6	C132G103-00****	0.010	18.0	14.5	7.5	14.0	0.6	C132J103-00****	0.010	22.5	15.0	8.0	19.0	0.8	C132K103-00****

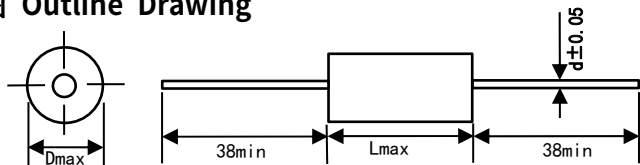
备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%.
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



C30
CBB20 series

轴向金属化聚丙烯膜电容器 Metallized polypropylene film capacitor(Axial-type)

外形图 Outline Drawing



特点

- 金属化聚丙烯，无感卷绕结构，轴向
- 自愈性能优异
- 外包装聚酯胶带纸，两端灌注环氧树脂

主要用途

- 温度补偿电路
- 定时、振荡电路
- 功率因素校正，开关电源耦合用

技术要求 Specifications

Features

- Metallized Polypropylene film, non-inductive type, axial
- Excellent self-healing property
- Wrapped with polyester adhesive tape and ends filled with Flame retardant epoxy resin

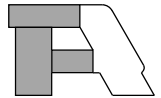
Typical Applications

- Temperature compensation circuits
- Timing, oscillator circuits
- Power factor correction and coupling capacitor in SMPS applications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)							
气候类别 Climatic Category	40/085/21							
额定温度 Rated Temperature	85°C							
额定电压 Rated Voltage	100/160V、250V、400V、630V、1 000V、1 250V							
电容量范围 Capacitance Range	0.0010μF~10.0μF							
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)							
耐电压 Voltage Proof	1.6U _R (5s)							
损耗角正切 Dissipation Factor	≤10×10 ⁻⁴ (20°C, 1kHz)							
绝缘电阻 Insulation Resistance	R≥1000 000MΩ, C _N ≤0.33μF RC _N ≥1 250s, C _N >0.33μF (20°C, 100V, 1min)							
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	U _R (V)	dV/dt(V/μs)						
		L=12.0	L=14.5	L=20.0	L=27.5	L=33.0	L=41.5	L=56.5
	100/160	150	110	80	60	50	35	20
	250	300	220	150	110	90	60	30
	400	460	330	250	180	120	80	45
	630	600	440	300	220	150	100	60
	1 000	800	550	400	300	200	150	80
1 250	1 000	750	580	400	300	200	100	

The 15 digits part number is formed as follow:

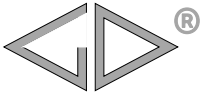
第 1~3 位	型号代码 C30=CBB20	Digit 1 to 3	Series code C30=CBB20
第 4~5 位	直流额定电压 2A=100V 2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V	Digit 4 to 5	D.C. rated voltage 2A=100V 2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V
第 6~8 位	标称容量 举例: 103=10×10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差 J=±5%, K=±10%, M=±20%	Digit 9	Capacitance tolerance J=±5%, K=±10%, M=±20%
第 10 位	轴向 0 代表轴向	Digit 10	Axial 0= axial
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码 C000 表示标准的引线长度(38mm min)	Digit 12 to 15	Lead form and packaging code C000 means lead length(38mm min)



■ 外形尺寸 Dimensions(mm)

100V(60Vac)/160Vdc(90Vac) [#]					250Vdc(160Vac)					400Vdc(200Vac)				
C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number
0.022	5.0	12.0	0.6	C302A223-00C000	0.010	5.0	12.0	0.6	C302E103-00C000	0.0068	5.0	12.0	0.6	C302G682-00C000
0.027	5.0	12.0	0.6	C302A273-00C000	0.012	5.0	12.0	0.6	C302E123-00C000	0.0082	5.0	12.0	0.6	C302G822-00C000
0.033	5.0	12.0	0.6	C302A333-00C000	0.015	5.0	12.0	0.6	C302E153-00C000	0.010	5.0	12.0	0.6	C302G103-00C000
0.039	5.0	12.0	0.6	C302A393-00C000	0.018	5.0	12.0	0.6	C302E183-00C000	0.012	5.0	12.0	0.6	C302G123-00C000
0.047	5.0	12.0	0.6	C302A473-00C000	0.022	5.0	12.0	0.6	C302E223-00C000	0.015	5.0	12.0	0.6	C302G153-00C000
0.056	5.0	12.0	0.6	C302A563-00C000	0.027	5.0	12.0	0.6	C302E273-00C000	0.018	5.5	12.0	0.6	C302G183-00C000
0.068	5.5	12.0	0.6	C302A683-00C000	0.033	5.5	12.0	0.6	C302E333-00C000	0.022	5.5	12.0	0.6	C302G223-00C000
0.082	5.0	14.5	0.6	C302A823-00C000	0.039	5.0	14.5	0.6	C302E393-00C000	0.027	5.0	14.5	0.6	C302G273-00C000
0.10	5.5	14.5	0.6	C302A104-00C000	0.047	5.5	14.5	0.6	C302E473-00C000	0.033	5.5	14.5	0.6	C302G333-00C000
0.12	6.0	14.5	0.6	C302A124-00C000	0.056	5.5	14.5	0.6	C302E563-00C000	0.039	6.0	14.5	0.6	C302G393-00C000
0.15	6.5	14.5	0.6	C302A154-00C000	0.068	6.0	14.5	0.6	C302E683-00C000	0.047	6.5	14.5	0.6	C302G473-00C000
0.18	7.0	14.5	0.8	C302A184-00C000	0.082	6.5	14.5	0.6	C302E823-00C000	0.056	6.5	14.5	0.6	C302G563-00C000
0.22	7.5	14.5	0.8	C302A224-00C000	0.10	7.0	14.5	0.8	C302E104-00C000	0.068	7.0	14.5	0.8	C302G683-00C000
0.27	8.5	14.5	0.8	C302A274-00C000	0.12	7.5	14.5	0.8	C302E124-00C000	0.082	7.5	14.5	0.8	C302G823-00C000
0.33	7.0	20.0	0.8	C302A334-00C000	0.15	8.0	14.5	0.8	C302E154-00C000	0.10	7.0	20.0	0.8	C302G104-00C000
0.39	7.5	20.0	0.8	C302A394-00C000	0.18	8.5	14.5	0.8	C302E184-00C000	0.12	7.5	20.0	0.8	C302G124-00C000
0.47	8.0	20.0	0.8	C302A474-00C000	0.22	7.5	20.0	0.8	C302E224-00C000	0.15	8.0	20.0	0.8	C302G154-00C000
0.56	9.0	20.0	0.8	C302A564-00C000	0.27	8.0	20.0	0.8	C302E274-00C000	0.18	8.5	20.0	0.8	C302G184-00C000
0.68	8.0	27.5	0.8	C302A684-00C000	0.33	9.0	20.0	0.8	C302E334-00C000	0.22	9.0	20.0	0.8	C302G224-00C000
0.82	8.5	27.5	0.8	C302A824-00C000	0.39	9.5	20.0	0.8	C302E394-00C000	0.27	10.0	20.0	0.8	C302G274-00C000
1.0	9.5	27.5	0.8	C302A105-00C000	0.47	8.5	27.5	0.8	C302E474-00C000	0.33	9.0	27.5	0.8	C302G334-00C000
1.2	10.0	27.5	0.8	C302A125-00C000	0.56	9.0	27.5	0.8	C302E564-00C000	0.39	9.5	27.5	0.8	C302G394-00C000
1.5	11.5	27.5	0.8	C302A155-00C000	0.68	10.0	27.5	0.8	C302E684-00C000	0.47	10.0	27.5	0.8	C302G474-00C000
1.8	12.0	27.5	0.8	C302A185-00C000	0.82	10.5	27.5	0.8	C302E824-00C000	0.56	10.5	27.5	0.8	C302G564-00C000
2.2	12.0	33.0	0.8	C302A225-00C000	1.0	12.0	27.5	0.8	C302E105-00C000	0.68	12.0	27.5	0.8	C302G684-00C000
2.7	13.0	33.0	0.8	C302A275-00C000	1.2	12.5	27.5	0.8	C302E125-00C000	0.82	13.0	27.5	0.8	C302G824-00C000
3.3	14.0	33.0	0.8	C302A335-00C000	1.5	12.5	33.0	0.8	C302E155-00C000	1.0	12.5	33.0	0.8	C302G105-00C000
3.9	15.0	33.0	0.8	C302A395-00C000	1.8	13.5	33.0	0.8	C302E185-00C000	1.2	13.5	33.0	0.8	C302G125-00C000
4.7	16.5	33.0	1.0	C302A475-00C000	2.2	14.5	33.0	0.8	C302E225-00C000	1.5	15.0	33.0	0.8	C302G155-00C000
5.6	17.5	33.0	1.0	C302A565-00C000	2.7	16.0	33.0	1.0	C302E275-00C000	1.8	16.0	33.0	1.0	C302G185-00C000
6.8	17.5	41.5	1.0	C302A685-00C000	3.3	17.5	33.0	1.0	C302E335-00C000	2.2	17.5	33.0	1.0	C302G225-00C000
8.2	19.0	41.5	1.0	C302A825-00C000	3.9	18.5	33.0	1.0	C302E395-00C000	2.7	19.0	33.0	1.0	C302G275-00C000
10.0	20.5	41.5	1.0	C302A106-00C000	4.7	18.0	41.5	1.0	C302E475-00C000	3.3	18.5	41.5	1.0	C302G335-00C000
12.0	19.0	56.5	1.0	C302A126-00C000	5.6	19.5	41.5	1.0	C302E565-00C000	3.9	20.0	41.5	1.0	C302G395-00C000
15.0	21.0	56.5	1.0	C302A156-00C000	6.8	21.5	41.5	1.0	C302E685-00C000	4.7	21.5	41.5	1.0	C302G475-00C000
					8.2	23.0	41.5	1.0	C302E825-00C000	5.6	23.5	41.5	1.0	C302G565-00C000
					10.0	21.5	56.5	1.0	C302E106-00C000	6.8	21.5	56.5	1.0	C302G685-00C000
					12.0	23.5	56.5	1.0	C302E126-00C000	8.2	23.5	56.5	1.0	C302G825-00C000
					15.0	25.5	56.5	1.0	C302E156-00C000	10.0	25.5	56.5	1.0	C302G106-00C000

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%.
2. # 当额定电压为 160Vdc 时, 第 4~5 位是 2C。 “#” when the rated voltage is 160Vdc, the digit 4~5 is 2C.



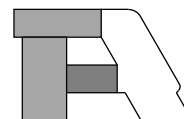
■ 外形尺寸 Dimensions(mm)

630Vdc(220Vac) [@]					1 000Vdc(350Vac)					1 250Vdc(400Vac)				
C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number
0.0010	5.0	12.0	0.6	C302J102-00C000	0.0010	5.0	12.0	0.6	C303A102-00C000	0.0010	5.0	12.0	0.6	C303B102-00C000
0.0012	5.0	12.0	0.6	C302J122-00C000	0.0012	5.0	12.0	0.6	C303A122-00C000	0.0012	5.5	12.0	0.6	C303B122-00C000
0.0015	5.0	12.0	0.6	C302J152-00C000	0.0015	5.0	12.0	0.6	C303A152-00C000	0.0015	5.5	12.0	0.6	C303B152-00C000
0.0018	5.0	12.0	0.6	C302J182-00C000	0.0018	5.5	12.0	0.6	C303A182-00C000	0.0018	6.0	12.0	0.6	C303B182-00C000
0.0022	5.0	12.0	0.6	C302J222-00C000	0.0022	6.0	12.0	0.6	C303A222-00C000	0.0022	6.5	12.0	0.6	C303B222-00C000
0.0027	5.0	12.0	0.6	C302J272-00C000	0.0027	6.0	12.0	0.6	C303A272-00C000	0.0027	5.5	14.5	0.6	C303B272-00C000
0.0033	5.0	12.0	0.6	C302J332-00C000	0.0033	6.5	12.0	0.6	C303A332-00C000	0.0033	6.0	14.5	0.6	C303B332-00C000
0.0039	5.0	12.0	0.6	C302J392-00C000	0.0039	5.5	14.5	0.6	C303A392-00C000	0.0039	6.0	14.5	0.6	C303B392-00C000
0.0047	5.0	12.0	0.6	C302J472-00C000	0.0047	5.5	14.5	0.6	C303A472-00C000	0.0047	6.5	14.5	0.6	C303B472-00C000
0.0056	5.0	12.0	0.6	C302J562-00C000	0.0056	6.5	14.5	0.6	C303A562-00C000	0.0056	7.0	14.5	0.8	C303B562-00C000
0.0068	5.5	12.0	0.6	C302J682-00C000	0.0068	6.5	14.5	0.6	C303A682-00C000	0.0068	7.5	14.5	0.8	C303B682-00C000
0.0082	5.0	14.5	0.6	C302J822-00C000	0.0082	7.0	14.5	0.8	C303A822-00C000	0.0082	8.0	14.5	0.8	C303B822-00C000
0.010	5.5	14.5	0.6	C302J103-00C000	0.010	7.5	14.5	0.8	C303A103-00C000	0.010	8.5	14.5	0.8	C303B103-00C000
0.012	5.5	14.5	0.6	C302J123-00C000	0.012	8.0	14.5	0.8	C303A123-00C000	0.012	7.0	20.0	0.8	C303B123-00C000
0.015	6.0	14.5	0.6	C302J153-00C000	0.015	8.5	14.5	0.8	C303A153-00C000	0.015	7.5	20.0	0.8	C303B153-00C000
0.018	6.5	14.5	0.6	C302J183-00C000	0.018	7.5	20.0	0.8	C303A183-00C000	0.018	8.0	20.0	0.8	C303B183-00C000
0.022	7.0	14.5	0.8	C302J223-00C000	0.022	8.0	20.0	0.8	C303A223-00C000	0.022	8.5	20.0	0.8	C303B223-00C000
0.027	7.5	14.5	0.8	C302J273-00C000	0.027	8.5	20.0	0.8	C303A273-00C000	0.027	9.5	20.0	0.8	C303B273-00C000
0.033	7.0	20.0	0.8	C302J333-00C000	0.033	9.0	20.0	0.8	C303A333-00C000	0.033	10.5	20.0	0.8	C303B333-00C000
0.039	7.5	20.0	0.8	C302J393-00C000	0.039	10.0	20.0	0.8	C303A393-00C000	0.039	9.0	27.5	0.8	C303B393-00C000
0.047	8.0	20.0	0.8	C302J473-00C000	0.047	10.5	20.0	0.8	C303A473-00C000	0.047	9.5	27.5	0.8	C303B473-00C000
0.056	8.5	20.0	0.8	C302J563-00C000	0.056	9.0	27.5	0.8	C303A563-00C000	0.056	10.0	27.5	0.8	C303B563-00C000
0.068	9.0	20.0	0.8	C302J683-00C000	0.068	9.5	27.5	0.8	C303A683-00C000	0.068	11.0	27.5	0.8	C303B683-00C000
0.082	9.5	20.0	0.8	C302J823-00C000	0.082	10.5	27.5	0.8	C303A823-00C000	0.082	12.0	27.5	0.8	C303B823-00C000
0.10	8.5	27.5	0.8	C302J104-00C000	0.10	11.5	27.5	0.8	C303A104-00C000	0.10	13.0	27.5	0.8	C303B104-00C000
0.12	9.0	27.5	0.8	C302J124-00C000	0.12	12.0	27.5	0.8	C303A124-00C000	0.12	12.5	33.0	0.8	C303B124-00C000
0.15	10.0	27.5	0.8	C302J154-00C000	0.15	12.0	33.0	0.8	C303A154-00C000	0.15	13.5	33.0	0.8	C303B154-00C000
0.18	10.5	27.5	0.8	C302J184-00C000	0.18	13.0	33.0	0.8	C303A184-00C000	0.18	14.5	33.0	0.8	C303B184-00C000
0.22	12.0	27.5	0.8	C302J224-00C000	0.22	14.0	33.0	0.8	C303A224-00C000	0.22	16.0	33.0	1.0	C303B224-00C000
0.27	13.0	27.5	0.8	C302J274-00C000	0.27	15.0	33.0	0.8	C303A274-00C000	0.27	17.0	33.0	1.0	C303B274-00C000
0.33	12.5	33.0	0.8	C302J334-00C000	0.33	16.5	33.0	1.0	C303A334-00C000	0.33	17.0	41.5	1.0	C303B334-00C000
0.39	13.5	33.0	0.8	C302J394-00C000	0.39	18.0	33.0	1.0	C303A394-00C000	0.39	18.0	41.5	1.0	C303B394-00C000
0.47	14.5	33.0	0.8	C302J474-00C000	0.47	17.5	41.5	1.0	C303A474-00C000	0.47	19.5	41.5	1.0	C303B474-00C000
0.56	15.5	33.0	0.8	C302J564-00C000	0.56	19.0	41.5	1.0	C303A564-00C000	0.56	21.0	41.5	1.0	C303B564-00C000
0.68	17.0	33.0	1.0	C302J684-00C000	0.68	20.5	41.5	1.0	C303A684-00C000	0.68	20.0	56.5	1.0	C303B684-00C000
0.82	18.0	33.0	1.0	C302J824-00C000	0.82	22.0	41.5	1.0	C303A824-00C000	0.82	21.5	56.5	1.0	C303B824-00C000
1.0	17.5	41.5	1.0	C302J105-00C000	1.0	20.5	56.5	1.0	C303A105-00C000	1.0	23.0	56.5	1.0	C303B105-00C000
1.2	19.0	41.5	1.0	C302J125-00C000	1.2	22.0	56.5	1.0	C303A125-00C000	1.2	25.0	56.5	1.0	C303B125-00C000
1.5	21.0	41.5	1.0	C302J155-00C000	1.5	24.5	56.5	1.0	C303A155-00C000	1.5	27.5	56.5	1.0	C303B155-00C000
1.8	22.5	41.5	1.0	C302J185-00C000										
2.2	24.5	41.5	1.0	C302J225-00C000										
2.7	23.0	56.5	1.0	C302J275-00C000										
3.3	25.0	56.5	1.0	C302J335-00C000										

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%, J=±5%.

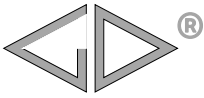
2. “@”不用作跨线, 请参见抗干扰电容器(Page 109).

“@” Not suitable for across-the-line applications. Pls refer to Interference Suppression Capacitors(Page 109).



抑制电源电磁干扰电容器 Interference suppression capacitors

型号 Type	代码 Code	特征 Description	安全认证 Saty Approvals	规格 Rating	应用 Application	页码 page
MKP62	C42	金属化, 聚丙烯, 塑壳封装, X2 类 Metallized, polypropylene film, box-type, class X2	CQC ENEC-VDE UL/ CUL KC	305Vac/275Vac: 0.010μF ~25.0μF	跨线, X2 Across the line, X2	110
C4V	C4V	金属化, 聚丙烯, 塑壳封装, X2 类 Metallized, polypropylene film, box-type, class X2(125°C)	CQC ENEC-SEMKO UL/ CUL	305Vac/275Vac: 0.010μF ~6.8μF		114
MKP62+R	C4R	金属化, 聚丙烯, 塑壳封装, X2 类 带放电电阻 Metallized, polypropylene film, box-type, class X2, with discharge resistor	CQC ENEC-VDE UL/ CUL	305Vac: 0.22μF ~10.0μF 470kΩ~20MΩ		117
MKP61R	C40	金属化, 阻容模块, 塑壳封装, X2 类 Metallized, RC-unit, box-type, class X2	CQC ENEC-SEMKO UL/ CUL	300Vac: 0.010μF ~1.0μF 10.0Ω~1000.0Ω		120
C4B	C4B	金属化, 聚丙烯, 塑壳封装, X2 类 Metallized, polypropylene film, box-type, class X2	CQC ENEC-SEMKO UL/ CUL	305Vac: 0.010μF ~25.0μF 350Vac: 0.010μF ~20.0μF		123
C4B	C4B (W/V)	金属化, 聚丙烯, 塑壳封装, X2 类 THB 系列 Metallized, polypropylene film, box-type, class X2, THB series	CQC ENEC-SEMKO UL/ CUL	305Vac: 0.10μF ~25.0μF 350Vac: 0.10μF ~20.0μF		127
C4H	C4H	金属化, 聚丙烯, 塑壳封装, X2 类 Metallized, polypropylene film, box-type, class X2	CQC ENEC-SEMKO UL/ CUL	400Vac: 0.010μF ~10.0μF		131
MKP64	C44	金属化, 聚丙烯, 塑壳封装, X1 类 Metallized polypropylene film, box-type, class X1	CQC ENEC-VDE UL/CUL	330Vac: 0.010μF ~15.0μF	跨线, X1 Across the line, X1	134
MKP65	C45	金属化, 聚丙烯, 塑壳封装, X1 类 Metallized polypropylene film, box-type, class X1	CQC ENEC-VDE UL/CUL	440Vac/480Vac: 0.0010μF ~10.0μF		137
MKP66	C46	金属化, 聚丙烯, 塑壳封装, X1 类 Metallized polypropylene film, box-type, class X1	CQC ENEC-SEMKO UL/CUL	760Vac: 0.0010μF ~2.2μF		140
MKP63	C43	金属化, 聚丙烯, 塑壳封装, Y2 类 Metallized, polypropylene film, box-type, class Y2	CQC ENEC-SEMKO UL/ CUL KC	300Vac: 0.0010μF ~1.0μF	接地, Y2 Line to ground, Y2	143
MKP67	C47	金属化, 聚丙烯, 塑壳封装, Y1 类 Metallized, polypropylene film, box-type, class Y1	CQC ENEC-SEMKO UL/CUL	440Vac/500Vac: 0.00047μF ~0.10μF	接地, Y1 Line to ground, Y1	147
MKP62	C42	金属化, 聚丙烯, 塑壳封装, X2 类, 小型化 Metallized, polypropylene film, box-type, class X2, Miniature version	CQC ENEC-VDE UL/CUL KC	305Vac/275Vac: 0.033μF ~0.47μF	跨线, X2, 室内 Across the line, X2, indoor applications	150

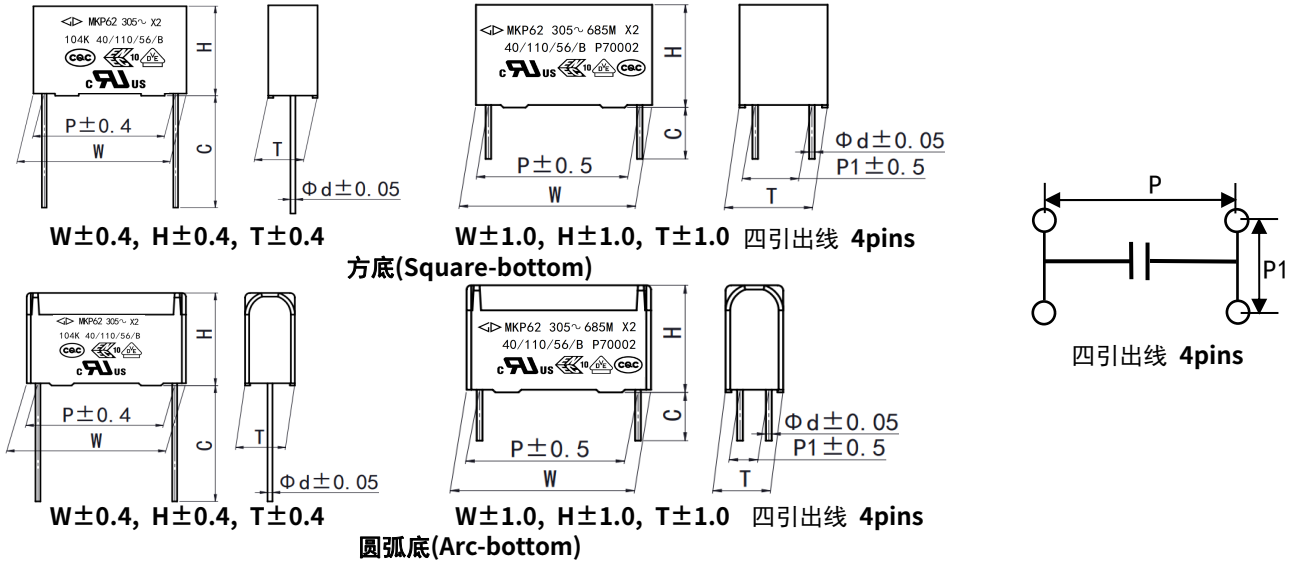


MKP62
Code:C42

金属化聚丙烯膜抗干扰电容器(X2类, 305Vac/275Vac)

Metallized polypropylene film Interference Suppression capacitor(Class X2, 305Vac/275Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

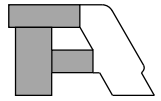
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8
●		KC (韩国)	K 60384-14(2006-12), X2, 305Vac/275Vac, 0.0010μF ~ 3.0μF, 40/110/56/B 证书号(Certificate No.): SU03060-12001A/12002/12003/12004

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	305Vac/275Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	630Vdc		
电容量范围 Capacitance Range	0.0010μF ~ 25.0μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000Ω, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	0.0010μF ≤ C _N < 0.010μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	0.010μF ≤ C _N < 0.47μF	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	0.47μF ≤ C _N ≤ 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
	1.0μF < C _N ≤ 10.0μF	≤ 30 × 10 ⁻⁴ (20°C, 1kHz)	-----
	10.0μF < C _N ≤ 50.0μF	≤ 40 × 10 ⁻⁴ (20°C, 1kHz)	-----
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 3. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

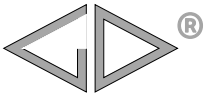
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	2												

第 1~3 位	型号代码 C42= MKP62	Digit 1 to 3	Series code C42= MKP62
第 4~5 位	交流额定电压 Q2=305V P2=275V	Digit 4 to 5	AC rated voltage Q2=305V P2=275V
第 6~8 位	标称容量 举例: 103=10×10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差 K=±10%, M=±20%	Digit 9	Capacitance tolerance K=±10%, M=±20%
第 10 位	引线脚距 P 3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm D=32.5mm F=37.5mm M=52.5mm	Digit 10	Pitch 3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm D=32.5mm F=37.5mm M=52.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3 4 6	F=7.5mm F=10.0mm F=15.0mm	0	表示直脚 straight	1 5	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm) P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
C	直脚 Straight lead "C" in the figure above	代码 Code 00 45	说明 explanation 标准的引线长度(18mm~26 mm) standard lead length 引线长度 4.5mm lead length 4.5mm			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
D E M	软绝缘线(多股) Insulated stranded leads 硬绝缘线(单股) Insulated solid leads 软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	C5 K0 K2 L0	35mm 100mm 120mm 200mm 注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts 注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads			1 2 3 4	引线长度偏差 -5mm~0mm Length tolerance -5 mm~0 mm 引线长度偏差 0 mm~+5 mm Length tolerance 0 mm~+5 mm 引线长度偏差 0 mm~+10mm Length tolerance 0 mm~+10mm 引线长度偏差±5 mm Length tolerance±5 mm
T 3	P1=20.3mm±0.5mm P1=20mm±0.5mm	45 55	引线长度 4.5mm lead length 4.5mm 引线长度 5.5mm lead length 5.5mm			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length



MKP62
Code:C42

■ 外形尺寸 Dimensions(mm)
标准型 Standard type

305Vac/275Vac [#]							305Vac/275Vac [#]							305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0010	10.5	9.0	4.0	7.5	0.6	C42Q2102-30****	0.010	17.5	9.5	5.0	15.0	0.6	C42Q2103-6A****	1.8	26.5	24.5	15.5	22.5	0.8	C42Q2185-9S****
0.0012	10.5	9.0	4.0	7.5	0.6	C42Q2122-30****	0.012	17.5	9.5	5.0	15.0	0.6	C42Q2123-6A****	2.2	26.5	24.5	15.5	22.5	0.8	C42Q2225-9S****
0.0015	10.5	9.0	4.0	7.5	0.6	C42Q2152-30****	0.015	17.5	9.5	5.0	15.0	0.6	C42Q2153-6A****	2.2	26.5	29.5	14.5	22.5	0.8	C42Q2225-9A****
0.0018	10.5	9.0	4.0	7.5	0.6	C42Q2182-30****	0.018	17.5	9.5	5.0	15.0	0.6	C42Q2183-6A****	0.39	32.0	18.0	9.0	27.5	0.8	C42Q2394-B0****
0.0022	10.5	9.0	4.0	7.5	0.6	C42Q2222-30****	0.022	17.5	9.5	5.0	15.0	0.6	C42Q2223-6A****	0.47	32.0	18.0	9.0	27.5	0.8	C42Q2474-B0****
0.0027	10.5	9.0	4.0	7.5	0.6	C42Q2272-30****	0.027	17.5	9.5	5.0	15.0	0.6	C42Q2273-6A****	0.56	32.0	18.0	9.0	27.5	0.8	C42Q2564-B0****
0.0033	10.5	9.0	4.0	7.5	0.6	C42Q2332-30****	0.033	17.5	9.5	5.0	15.0	0.6	C42Q2333-6A****	0.68	32.0	18.0	9.0	27.5	0.8	C42Q2684-B0****
0.0039	10.5	9.0	4.0	7.5	0.6	C42Q2392-30****	0.039	17.5	9.5	5.0	15.0	0.6	C42Q2393-6A****	0.82	32.0	18.0	9.0	27.5	0.8	C42Q2824-B0****
0.0047	10.5	9.0	4.0	7.5	0.6	C42Q2472-30****	0.047	17.5	9.5	5.0	15.0	0.6	C42Q2473-6A****	1.0	32.0	18.0	9.0	27.5	0.8	C42Q2105-BS****
0.0056	10.5	9.0	4.0	7.5	0.6	C42Q2562-30****	0.056	17.5	9.5	5.0	15.0	0.6	C42Q2563-6A****	1.0	32.0	12.0	18.0	27.5	0.8	C42Q2105-BC****
0.0068	10.5	9.0	4.0	7.5	0.6	C42Q2682-30****	0.068	17.5	9.5	5.0	15.0	0.6	C42Q2683-6A****	1.2	32.0	20.0	11.0	27.5	0.8	C42Q2125-BS****
0.0082	10.5	9.0	4.0	7.5	0.6	C42Q2822-30****	0.082	17.5	9.5	5.0	15.0	0.6	C42Q2823-6A****	1.5	32.0	20.0	11.0	27.5	0.8	C42Q2155-BS****
0.010	10.5	9.0	4.0	7.5	0.6	C42Q2103-30****	0.10M	17.5	9.5	5.0	15.0	0.6	C42Q2104M6A****	1.8	32.0	22.0	13.0	27.5	0.8	C42Q2185-BS****
0.012	10.5	9.0	4.0	7.5	0.6	C42Q2123-30****	0.10	17.5	11.0	5.0	15.0	0.6	C42Q2104-6S****	2.2M	32.0	22.0	13.0	27.5	0.8	C42Q2225MBS****
0.015	10.5	9.0	4.0	7.5	0.6	C42Q2153-30****	0.12	17.5	11.0	5.0	15.0	0.6	C42Q2124-6S****	2.2K	32.0	25.0	13.0	27.5	0.8	C42Q2225KBS****
0.018	10.5	9.0	4.0	7.5	0.6	C42Q2183-30****	0.15M	17.5	11.0	5.0	15.0	0.6	C42Q2154M6S****	★2.2	32.0	16.0	22.0	27.5	0.8	C42Q2225-BG****
0.022	10.5	9.0	4.0	7.5	0.6	C42Q2223-3S****	0.15K	17.5	12.0	6.0	15.0	0.6	C42Q2154K6S****	2.7	32.0	28.0	14.0	27.5	0.8	C42Q2275-BS****
0.027	10.5	9.0	4.0	7.5	0.6	C42Q2273-3S****	0.18	17.5	12.0	6.0	15.0	0.6	C42Q2184-6S****	3.3	32.0	30.0	16.0	27.5	0.8	C42Q2395-BA****
0.033	10.5	11.0	5.0	7.5	0.6	C42Q2333-3S****	0.22M	17.5	12.0	6.0	15.0	0.6	C42Q2224M6S****	3.3M	32.0	24.5	15.0	27.5	0.8	C42Q2335MBS****
0.039	10.5	11.0	5.0	7.5	0.6	C42Q2393-3S****	0.22K	17.5	13.5	6.0	15.0	0.6	C42Q2224K6B****	3.3K	32.0	28.0	17.0	27.5	0.8	C42Q2335KBS****
0.047	10.5	11.0	5.0	7.5	0.6	C42Q2473-3S****	0.22K	17.5	12.0	7.0	15.0	0.6	C42Q2224K6C****	★3.3M	32.0	16.0	27.5	27.5	0.8	C42Q2335MBC****
0.056	10.5	12.0	6.0	7.5	0.6	C42Q2563-3S****	0.22K	17.5	13.5	7.5	15.0	0.6	C42Q2224K6S****	★3.3K	32.0	18.5	31.0	27.5	0.8	C42Q2335KBC****
0.068	10.5	12.0	6.0	7.5	0.6	C42Q2683-3S****	0.27	17.5	13.5	7.5	15.0	0.6	C42Q2274-6S****	3.9	32.0	29.0	19.0	27.5	0.8	C42Q2395-BA****
0.0047	13.0	9.0	4.0	10.0	0.6	C42Q2472-40****	0.33M	17.5	13.5	7.5	15.0	0.6	C42Q2334M6S****	3.9	32.0	33.0	18.0	27.5	0.8	C42Q2395-BS****
0.0056	13.0	9.0	4.0	10.0	0.6	C42Q2562-40****	0.33K	17.5	14.0	8.0	15.0	0.6	C42Q2334K6S****	4.7M	32.0	33.0	18.0	27.5	0.8	C42Q2475MBS****
0.0068	13.0	9.0	4.0	10.0	0.6	C42Q2682-40****	0.33M	17.5	12.5	9.0	15.0	0.6	C42Q2334M6A****	★4.7M	32.0	18.5	31.0	27.5	0.8	C42Q2475MBC****
0.0082	13.0	9.0	4.0	10.0	0.6	C42Q2822-40****	0.33M	17.5	17.5	6.0	15.0	0.6	C42Q2334M6B****	4.7K	32.0	33.0	18.0	27.5	0.8	C42Q2475KBA****
0.010	13.0	9.0	4.0	10.0	0.6	C42Q2103-40****	0.33K	17.5	18.5	7.5	15.0	0.8	C42Q2334K6A****	★4.7	32.0	30.0	21.0	27.5	0.8	C42Q2475-BB****
0.012	13.0	9.0	4.0	10.0	0.6	C42Q2123-40****	0.33	17.5	12.0	13.0	15.0	0.8	C42Q2334-6C****	5.6	32.0	37.0	22.0	27.5	0.8	C42Q2565-BS****
0.015	13.0	9.0	4.0	10.0	0.6	C42Q2153-40****	0.39	17.5	14.5	8.5	15.0	0.6	C42Q2394-6S****	6.8M	32.0	37.0	22.0	27.5	0.8	C42Q2685MBS****
0.018	13.0	9.0	4.0	10.0	0.6	C42Q2183-40****	0.47M	17.5	14.5	8.5	15.0	0.6	C42Q2474M6S****	1.5	41.0	22.0	11.0	37.5	1.0	C42Q2155-FS****
0.022	13.0	9.0	4.0	10.0	0.6	C42Q2223-40****	0.47M	17.5	18.5	7.5	15.0	0.8	C42Q2474M6A****	1.8	41.0	22.0	11.0	37.5	1.0	C42Q2185-FS****
0.027	13.0	9.0	4.0	10.0	0.6	C42Q2273-40****	0.47K	17.5	16.0	10.0	15.0	0.8	C42Q2474K6S****	2.2	41.0	24.0	13.0	37.5	1.0	C42Q2225-FS****
0.033	13.0	9.0	4.0	10.0	0.6	C42Q2333-4S****	0.56	17.5	16.0	10.0	15.0	0.8	C42Q2564-6A****	2.2	42.0	15.0	24.0	37.5	1.0	C42Q2225-FC****
0.039	13.0	9.0	4.0	10.0	0.6	C42Q2393-4S****	0.60	17.5	19.0	11.0	15.0	0.8	C42Q2604-6S****	2.7	41.0	24.0	13.0	37.5	1.0	C42Q2275-FS****
0.047	13.0	9.0	4.0	10.0	0.6	C42Q2473-4S****	0.68	17.5	19.0	11.0	15.0	0.8	C42Q2684-6S****	3.3	41.0	26.0	15.0	37.5	1.0	C42Q2335-FA****
0.056	13.0	11.0	5.0	10.0	0.6	C42Q2563-4S****	0.82M	17.5	19.0	11.0	15.0	0.8	C42Q2824M6S****	3.3	42.0	28.0	14.0	37.5	1.0	C42Q2335-FS****
0.068	13.0	11.0	5.0	10.0	0.6	C42Q2683-4S****	0.15	26.5	15.0	6.0	22.5	0.8	C42Q2154-90****	3.3	42.0	15.0	24.0	37.5	1.0	C42Q2335-FG****
0.082	13.0	11.0	5.0	10.0	0.6	C42Q2823-4S****	0.18	26.5	15.0	6.0	22.5	0.8	C42Q2184-90****	3.9	41.0	30.0	16.0	37.5	1.0	C42Q2395-FS****
0.10M	13.0	11.0	5.0	10.0	0.6	C42Q2104M4S****	0.22	26.5	15.0	6.0	22.5	0.8	C42Q2224-9S****	4.7M	42.0	19.0	24.0	37.5	1.0	C42Q2475MFC****
0.10K	13.0	12.0	6.0	10.0	0.6	C42Q2104K4S****	0.27	26.5	15.0	6.0	22.5	0.8	C42Q2274-9S****	4.7K	41.0	20.0	26.0	37.5	1.0	C42Q2475KFC****
0.12	13.0	13.0	7.0	10.0	0.6	C42Q2124-4S****	0.33	26.5	15.0	6.0	22.5	0.8	C42Q2334-9S****	4.7	41.0	30.0	16.0	37.5	1.0	C42Q2475-FS****
0.15	13.0	13.0	7.0	10.0	0.6	C42Q2154-4S****	0.39	26.5	15.0	6.0	22.5	0.8	C42Q2394-9S****	5.6	41.0	33.5	18.5	37.5	1.0	C42Q2565-FS****
0.18	13.0	14.0	8.0	10.0	0.6	C42Q2184-4S****	0.47M	26.5	15.0	6.0	22.5	0.8	C42Q2474M9S****	6.8	41.0	33.5	18.5	37.5	1.0	C42Q2685-FS****
0.22	13.0	14.0	8.0	10.0	0.6	C42Q2224-4S****	0.47K	26.5	16.0	7.0	22.5	0.8	C42Q2474K9S****	6.8	42.0	24.0	32.0	37.5	1.0	C42Q2685-FC****
							0.56	26.5	16.0	7.0	22.5	0.8	C42Q2564-9S****	8.2	41.0	37.0	22.0	37.5	1.0	C42Q2825-FS****
							0.60	26.5	17.0	8.5	22.5	0.8	C42Q2604-9S****	10.0M	41.0	37.0	22.0	37.5	1.0	C42Q2106MFS****
							0.68	26.5	17.0	8.5	22.5	0.8	C42Q2684-9S****	10.0K	41.0	41.0	26.0	37.5	1.0	C42Q2106KFS****
							0.82	26.5	18.5	10.0	22.5	0.8	C42Q2824-9S****	10.0K	41.5	37.5	27.5	37.5	1.0	C42Q2106KFA****
							1.0	26.5	18.5	10.0	22.5	0.8	C42Q2105-9S****	12.0	41.0	43.0	28.0	37.5	1.0	C42Q2126-FS****
							1.2	26.5	20.0	11.0	22.5	0.8	C42Q2125-9S****	15.0	42.0	45.0	30.0	37.5	1.0	C42Q2156-FS****
							1.5M	26.5	20.0	11.0	22.5	0.8	C42Q2155M9S****	20.0	42.0	57.5	30.0	37.5	1.0	C42Q2206-FS****
							1.5K	26.5	22.0	12.0	22.5	0.8	C42Q2155K9S****	20.0	57.0	45.0	30.0	52.5	1.2	C42Q2206-MST****
														20.0	57.0	30.0	44.0	52.5	1.2	C42Q2206-MCT****
														25.0	57.0	50.0	35.0	52.5	1.2	C42Q2256-MST****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 275Vac 时,第 4~5 位是 P2。“#”when the rated voltage is 275Vac, the digit 4~5 is P2.
 4. 不用于与电源串联的场合,与电源串联用请参见降压专用电容器 P153。
 Not for use in series with the mains, the capacitors for series with the mains, please refer Page153.
 5. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.

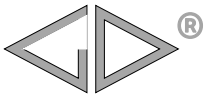


■ 外形尺寸 Dimensions(mm)
高性能型 High performance version

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.022	10.5	9.0	4.0	7.5	0.6	C42Q2223-30****
0.027	10.5	11.0	5.0	7.5	0.6	C42Q2273-30****
0.033	10.5	11.0	5.0	7.5	0.6	C42Q2333-30****
0.039	10.5	12.0	6.0	7.5	0.6	C42Q2393-30****
0.047	10.5	12.0	6.0	7.5	0.6	C42Q2473-30****
0.033	13.0	11.0	5.0	10.0	0.6	C42Q2333-40****
0.039	13.0	11.0	5.0	10.0	0.6	C42Q2393-40****
0.047	13.0	11.0	5.0	10.0	0.6	C42Q2473-40****
0.056	13.0	11.0	5.0	10.0	0.6	C42Q2563-40****
0.068	13.0	12.0	6.0	10.0	0.6	C42Q2683-40****
0.082	13.0	12.0	6.0	10.0	0.6	C42Q2823-40****
0.12	13.0	14.0	8.0	10.0	0.6	C42Q2124-40****
0.15	13.0	14.0	8.0	10.0	0.6	C42Q2154-40****
0.010	17.5	11.0	5.0	15.0	0.8	C42Q2103-60****
0.012	17.5	11.0	5.0	15.0	0.8	C42Q2123-60****
0.015	17.5	11.0	5.0	15.0	0.8	C42Q2153-60****
0.018	17.5	11.0	5.0	15.0	0.8	C42Q2183-60****
0.022	17.5	11.0	5.0	15.0	0.8	C42Q2223-60****
0.027	17.5	11.0	5.0	15.0	0.8	C42Q2273-60****
0.033	17.5	11.0	5.0	15.0	0.8	C42Q2333-60****
0.039	17.5	11.0	5.0	15.0	0.8	C42Q2393-60****
0.047	17.5	11.0	5.0	15.0	0.8	C42Q2473-60****
0.056	17.5	11.0	5.0	15.0	0.8	C42Q2563-60****
0.068	17.5	11.0	5.0	15.0	0.8	C42Q2683-60****
0.082	17.5	11.0	5.0	15.0	0.8	C42Q2823-60****
0.10	17.5	11.0	5.0	15.0	0.8	C42Q2104-60****
0.12	17.5	12.0	6.0	15.0	0.8	C42Q2124-60****
0.15	17.5	12.0	6.0	15.0	0.8	C42Q2154-60****
0.18	17.5	13.5	7.5	15.0	0.8	C42Q2184-60****
0.22	17.5	13.5	7.5	15.0	0.8	C42Q2224-60****
0.27	17.5	14.5	8.5	15.0	0.8	C42Q2274-60****
0.33	17.5	16.0	10.0	15.0	0.8	C42Q2334-60****
0.39	17.5	19.0	11.0	15.0	0.8	C42Q2394-60****
0.47	17.5	19.0	11.0	15.0	0.8	C42Q2474-60****

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.27	26.5	16.0	7.0	22.5	0.8	C42Q2274-90****
0.33	26.5	16.0	7.0	22.5	0.8	C42Q2334-90****
0.39	26.5	17.0	8.5	22.5	0.8	C42Q2394-90****
0.47	26.5	17.0	8.5	22.5	0.8	C42Q2474-90****
0.56	26.5	18.5	10.0	22.5	0.8	C42Q2564-90****
0.68	26.5	18.5	10.0	22.5	0.8	C42Q2684-90****
0.82	26.5	22.0	12.0	22.5	0.8	C42Q2824-90****
1.0	26.5	22.0	12.0	22.5	0.8	C42Q2105-90****
1.2	26.5	24.5	15.5	22.5	0.8	C42Q2125-90****
1.5	26.5	24.5	15.5	22.5	0.8	C42Q2155-90****
0.82	32.0	20.0	11.0	27.5	0.8	C42Q2824-B0****
1.0	32.0	20.0	11.0	27.5	0.8	C42Q2105-B0****
1.2	32.0	22.0	13.0	27.5	0.8	C42Q2125-B0****
1.5	32.0	22.0	13.0	27.5	0.8	C42Q2155-B0****
1.8	32.0	24.5	15.0	27.5	0.8	C42Q2185-B0****
2.2	32.0	28.0	14.0	27.5	0.8	C42Q2225-B0****
2.7	32.0	33.0	18.0	27.5	0.8	C42Q2275-B0****
3.3	32.0	33.0	18.0	27.5	0.8	C42Q2335-B0****
3.9	32.0	37.0	22.0	27.5	0.8	C42Q2395-B0****
4.7	32.0	37.0	22.0	27.5	0.8	C42Q2475-B0****
1.5	41.0	22.0	11.0	37.5	1.0	C42Q2155-F0****
★1.8	41.0	26.0	12.0	37.5	1.0	C42Q2185-F0****
★2.2M	41.0	26.0	12.0	37.5	1.0	C42Q2225MF0****
2.2K	42.0	28.0	14.0	37.5	1.0	C42Q2225KF0****
2.7	42.0	28.0	14.0	37.5	1.0	C42Q2275-F0****
3.3	41.0	30.0	16.0	37.5	1.0	C42Q2335-F0****
3.9	41.0	32.0	17.0	37.5	1.0	C42Q2395-F0****
4.7	41.0	33.5	18.5	37.5	1.0	C42Q2475-F0****
5.6	41.0	37.0	22.0	37.5	1.0	C42Q2565-F0****
6.8	41.0	37.0	22.0	37.5	1.0	C42Q2685-F0****
8.2	41.0	41.0	26.0	37.5	1.0	C42Q2825-F0****
10.0	41.0	43.0	28.0	37.5	1.0	C42Q2106-F0****

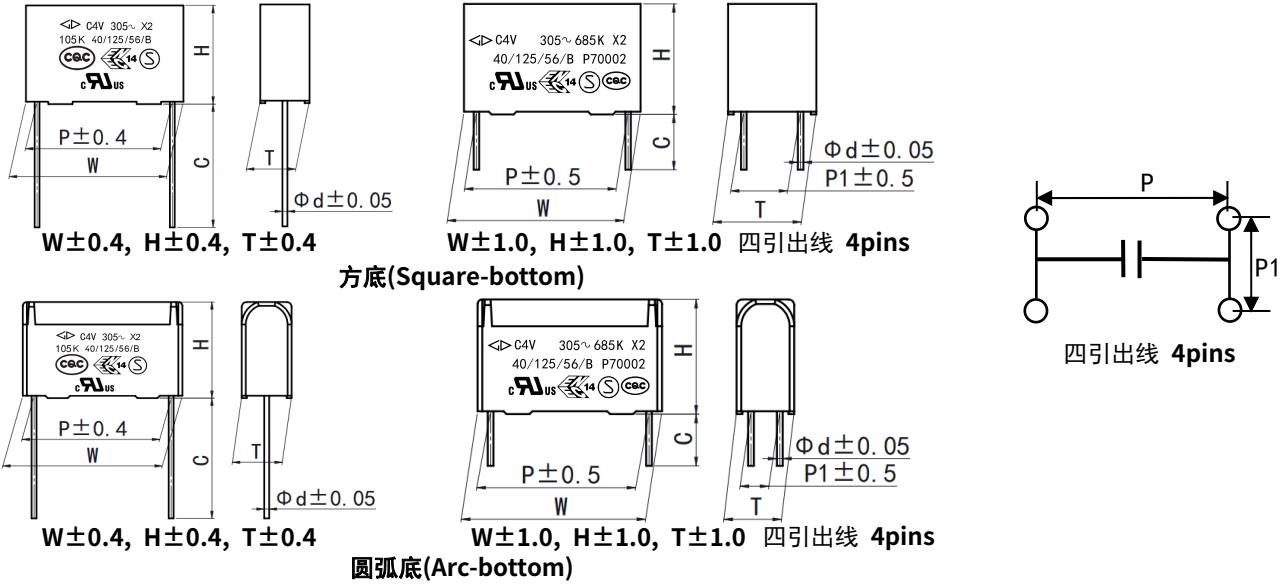
- 备注 Note: 1. “-”表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****” =lead form and packing code(refer to table 1).
 3. “#”当额定电压为275Vac时,第4~5位是P2。“#” when the rated voltage is 275Vac, the digit 4~5 is P2.
 4. 不用于与电源串联的场合,与电源串联用请参见降压专用电容器P153。
 Not for use in series with the mains, the capacitors for series with the mains, please refer Page 153.
 5. “★”表示外壳为圆弧底。“★” = Arc bottom of the outer shell.



C4V
Code:C4V

金属化聚丙烯膜抗干扰电容器(X2类, 305Vac/275Vac, 125°C) Metallized polypropylene film Interference Suppression capacitor(Class X2, 305Vac/275Vac, 125°C)

外形图 Outline Drawing



特点

- 高温金属化聚丙烯:125°C
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

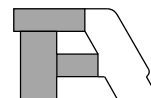
- High temperature metallized polypropylene structure:125°C
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line,interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013+AMD1:2016, X2, 305Vac&275Vac, 0.01μF ~ 6.8μF, 40/125/56/B 证书号(Certificate No.): CQC22001327447
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac&275Vac, 0.01μF ~ 6.8μF, 40/125/56/B 证书号(Certificate No.): SE-ENEC-2200277
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X2, 305Vac&275Vac, 0.01μF ~ 6.8μF, 40/125/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/125/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +125°C		
额定电压 Rated Voltage(U_R)	305Vac/275Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	630Vdc		
电容量范围 Capacitance Range	0.010μF ~ 6.8μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3 U_R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
绝缘电阻 Insulation Resistance	$R \geq 15\ 000\ \Omega$, $C_N \leq 0.33\ \mu\text{F}$	(20°C, 100V, 1min)	
	$R_{C_N} \geq 5\ 000s$, $C_N > 0.33\ \mu\text{F}$		
损耗角正切 Dissipation Factor($\tan\delta$)	$0.010\ \mu\text{F} \leq C_N < 1.0\ \mu\text{F}$	$\leq 15 \times 10^{-4}$ (20°C, 1kHz)	$\leq 40 \times 10^{-4}$ (20°C, 10kHz)
	$1.0\ \mu\text{F} < C_N$	$\leq 30 \times 10^{-4}$ (20°C, 1kHz)	-----
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 3. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

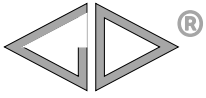
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	V												

第 1~3 位	型号代码 C4V	Digit 1 to 3	Series code C4V
第 4~5 位	交流额定电压 Q2=305V P2=275V	Digit 4 to 5	AC rated voltage Q2=305V P2=275V
第 6~8 位	标称容量 举例: 103=10×10³pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差 K=±10%, M=±20%	Digit 9	Capacitance tolerance K=±10%, M=±20%
第 10 位	引线脚距 P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm	Digit 10	Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15		
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)	
		4	F=10.0mm				5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detaill parameter refer to page 16)
		6	F=15.0mm					
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length	
		00	标准的引线长度(18mm~26 mm) standard lead length					
T 3	P1=20.3mm±0.5mm	45	引线长度 4.5mm lead length 4.5mm	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm or standard length	
	P1=20mm±0.5mm	55	引线长度 5.5mm lead length 5.5mm					



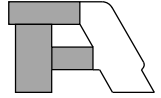
C4V
Code:C4V

■ 外形尺寸 Dimensions(mm)

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C4VQ2103-40****
0.015	13.0	9.0	4.0	10.0	0.6	C4VQ2153-40****
0.022	13.0	9.0	4.0	10.0	0.6	C4VQ2223-4S****
0.033	13.0	11.0	5.0	10.0	0.6	C4VQ2333-4S****
0.039	13.0	11.0	5.0	10.0	0.6	C4VQ2393-4S****
0.047	13.0	11.0	5.0	10.0	0.6	C4VQ2473-4S****
0.056	13.0	11.0	5.0	10.0	0.6	C4VQ2563-4S****
0.068	13.0	12.0	6.0	10.0	0.6	C4VQ2683-4S****
0.082	13.0	12.0	6.0	10.0	0.6	C4VQ2823-4S****
0.10	13.0	13.0	7.0	10.0	0.6	C4VQ2104-4S****
0.15	13.0	14.0	8.0	10.0	0.6	C4VQ2154-4S****
0.010	17.5	9.5	5.0	15.0	0.6	C4VQ2103-60****
0.015	17.5	9.5	5.0	15.0	0.6	C4VQ2153-60****
0.022	17.5	9.5	5.0	15.0	0.6	C4VQ2223-60****
0.033	17.5	9.5	5.0	15.0	0.6	C4VQ2333-60****
0.039	17.5	9.5	5.0	15.0	0.6	C4VQ2393-60****
0.047	17.5	9.5	5.0	15.0	0.6	C4VQ2473-6S****
0.056	17.5	9.5	5.0	15.0	0.6	C4VQ2563-6S****
0.068	17.5	9.5	5.0	15.0	0.6	C4VQ2683-6S****
0.082	17.5	9.5	5.0	15.0	0.6	C4VQ2823-6S****
0.10	17.5	11.0	5.0	15.0	0.6	C4VQ2104-6S****
0.15	17.5	12.0	6.0	15.0	0.6	C4VQ2154-6S****
0.22	17.5	13.5	7.5	15.0	0.6	C4VQ2224-6S****
0.33	17.5	14.5	8.5	15.0	0.6	C4VQ2334-6S****
0.39	17.5	16.0	10.0	15.0	0.8	C4VQ2394-6S****
0.47	17.5	16.0	10.0	15.0	0.8	C4VQ2474-6S****
0.56	17.5	19.0	11.0	15.0	0.8	C4VQ2564-6S****

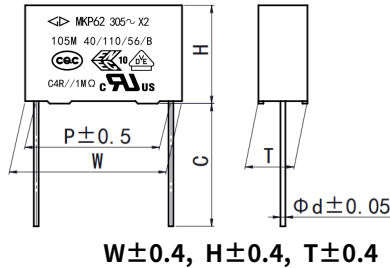
305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.22	26.5	15.0	6.0	22.5	0.8	C4VQ2224-9S****
0.33	26.5	15.0	6.0	22.5	0.8	C4VQ2334-9S****
0.39	26.5	16.0	7.0	22.5	0.8	C4VQ2394-9S****
0.47	26.5	16.0	7.0	22.5	0.8	C4VQ2474-9S****
0.56	26.5	17.0	8.5	22.5	0.8	C4VQ2564-9S****
0.68	26.5	18.5	9.0	22.5	0.8	C4VQ2684-9S****
0.82	26.5	18.5	10.0	22.5	0.8	C4VQ2824-9S****
1.0	26.5	20.0	11.0	22.5	0.8	C4VQ2105-9S****
1.2	26.5	22.0	12.0	22.5	0.8	C4VQ2125-9S****
1.5	26.5	23.0	13.5	22.5	0.8	C4VQ2155-9S****
1.8	26.5	24.5	14.5	22.5	0.8	C4VQ2185-9S****
2.2	26.5	29.5	14.5	22.5	0.8	C4VQ2225-9S****
0.68	32.0	18.0	9.0	27.5	0.8	C4VQ2684-BS****
0.82	32.0	18.0	9.0	27.5	0.8	C4VQ2824-BS****
1.0	32.0	20.0	11.0	27.5	0.8	C4VQ2105-BS****
1.2	32.0	20.0	11.0	27.5	0.8	C4VQ2125-BS****
1.5	32.0	22.0	12.0	27.5	0.8	C4VQ2155-BS****
1.8	32.0	22.0	13.0	27.5	0.8	C4VQ2185-BS****
2.2	32.0	24.5	15.0	27.5	0.8	C4VQ2225-BS****
2.7	32.0	28.0	14.0	27.5	0.8	C4VQ2275-BS****
3.3	32.0	30.0	16.0	27.5	0.8	C4VQ2335-BS****
3.9	32.0	33.0	18.0	27.5	0.8	C4VQ2395-BS****
★4.7	32.0	34.0	20.0	27.5	0.8	C4VQ2475-BS****
5.6	32.0	37.0	22.0	27.5	0.8	C4VQ2565-BS****
2.2	41.0	24.0	13.0	37.5	1.0	C4VQ2225-FS****
2.7	41.0	24.0	13.0	37.5	1.0	C4VQ2275-FS****
3.3	41.0	26.0	15.0	37.5	1.0	C4VQ2335-FS****
3.9	41.0	30.0	16.0	37.5	1.0	C4VQ2395-FS****
4.7	41.0	32.0	17.0	37.5	1.0	C4VQ2475-FS****
5.6	41.0	33.5	18.5	37.5	1.0	C4VQ2565-FS****
★6.8	41.0	34.0	20.0	37.5	1.0	C4VQ2685-FS****

- 备注 Note: 1. “-”表示容量偏差。 “.”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为275Vac时,第4~5位是P2。“#” when the rated voltage is 275Vac, the digit 4~5 is P2.
 4. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.

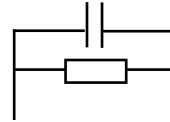


金属化聚丙烯膜抗干扰电容器(带放电电阻, X2 类, 305Vac) Metallized polypropylene film Interference Suppression capacitor with discharge resistor(Class X2, 305Vac)

外形图 Outline Drawing



电路结构图 Electrical Connection



特点

- X2 电容器与放电电阻内部并联组成
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

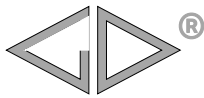
- Internal parallel connection from X2 cap to discharge resistor
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit.

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac, 0.22 μ F ~ 10.0 μ F, 40/110/56/B, discharge resistor 470k Ω ~20M Ω 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac, 0.22 μ F ~ 10.0 μ F, 40/110/56/B, discharge resistor 470k Ω ~20M Ω 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac, 0.22 μ F ~ 10.0 μ F, 40/110/56/B, discharge resistor 470k Ω ~20M Ω 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	305Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	630Vdc		
电容量范围 Capacitance Range	0.22 μ F ~ 10.0 μ F		
电容量偏差 Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)		
放电电阻范围/偏差 Resistance range/ Tolerance	470k Ω ~ 20M Ω , $\pm 10\%$		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
损耗角正切 Dissipation Factor(tan δ)	0.22 μ F \leq C _N <0.47 μ F	$\leq 20 \times 10^{-4}$ (1kHz,20°C)	$\leq 20 \times 10^{-4}$ (10kHz,20°C)
	0.47 μ F \leq C _N <1.0 μ F	$\leq 20 \times 10^{-4}$ (1kHz,20°C)	$\leq 40 \times 10^{-4}$ (10kHz,20°C)
	1.0 μ F \leq C _N \leq 10.0 μ F	$\leq 30 \times 10^{-4}$ (1kHz,20°C)	-----



MKP62+R
Code:C4R

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

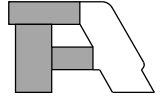
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	R												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C4R= MKP62 带放电电阻		C4R=MKP62 Series with discharge resistor
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V		Q2=305V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10³pF=0.01μF		for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	9=22.5mm B=27.5mm F=37.5mm		9=22.5mm B=27.5mm F=37.5mm
第 11 位	放电电阻阻值代码	Digit 11	Value code of the discharge resistor
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

第 12 位 Digit 12		第 13 位和第 14 位 Digit 13 and Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
C	直脚 Straight lead "C" in the figure above	45	引线长度 4.5mm lead length 4.5mm	0	引线长度偏差±0.5mm 或标准长度 Length tolerance ±0.5mm Or standard length
D	软绝缘线(多股) Insulated stranded leads	C5	35mm	1	引线长度偏差 -5mm~0mm Length tolerance -5 mm~0 mm
E	硬绝缘线(单股) Insulated solid leads	K0	100mm	2	引线长度偏差 0 mm~+5 mm Length tolerance 0 mm~+5 mm
M	软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	K2	120mm	3	引线长度偏差 0 mm~+10mm Length tolerance 0 mm~+10mm
		L0	200mm	4	引线长度偏差±5 mm Length tolerance ±5 mm
			注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts		
			注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads		

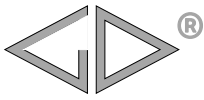


■ 外形尺寸 Dimensions(mm)

305Vac						
C _N (μF)	W	H	T	P	d	Part number
0.22	26.5	16.0	7.0	22.5	0.8	C4RQ2224-9#****
0.33	26.5	17.0	8.5	22.5	0.8	C4RQ2334-9#****
0.47	26.5	18.5	10.0	22.5	0.8	C4RQ2474-9#****
0.68	26.5	20.0	11.0	22.5	0.8	C4RQ2684-9#****
1.0	26.5	22.0	12.0	22.5	0.8	C4RQ2105-9#****
0.47	32.0	18.0	9.0	27.5	0.8	C4RQ2474-B#****
0.68	32.0	20.0	11.0	27.5	0.8	C4RQ2684-B#****
1.0M	32.0	20.0	11.0	27.5	0.8	C4RQ2105MB#****
1.0K	32.0	22.0	13.0	27.5	0.8	C4RQ2105KB#****
1.5	32.0	22.0	13.0	27.5	0.8	C4RQ2155-B#****
2.2	32.0	28.0	14.0	27.5	0.8	C4RQ2225-B#****
3.3	32.0	33.0	18.0	27.5	0.8	C4RQ2335-B#****
4.7	32.0	37.0	22.0	27.5	0.8	C4RQ2475-B#****
1.5	41.0	22.0	11.0	37.5	1.0	C4RQ2155-F#****
2.2	41.0	24.0	13.0	37.5	1.0	C4RQ2225-F#****
3.3	42.0	28.0	14.0	37.5	1.0	C4RQ2335-F#****
4.7	41.0	32.0	17.0	37.5	1.0	C4RQ2475-F#****
6.8	42.0	40.0	20.0	37.5	1.0	C4RQ2685-F#****
10.0	41.0	41.0	26.0	37.5	1.0	C4RQ2106-F#****

- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. 第11位“#”对应的电阻值表。 Digit 11: “#”=Value code of the discharge resistor (tolerance±10%)

电阻值 R _N	470kΩ	680kΩ	820kΩ	1MΩ	1.2MΩ	1.5MΩ	2.2MΩ	3.3MΩ	4.7MΩ	6.8MΩ	10MΩ	20MΩ
代码 Code	A	B	C	D	E	F	H	L	N	P	S	T

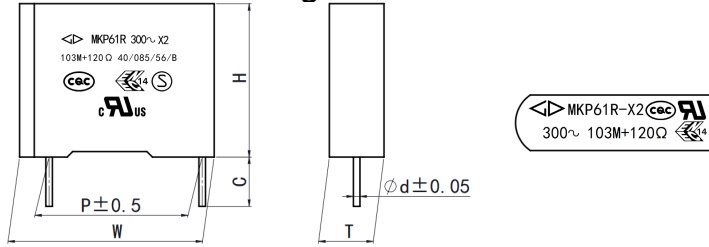


MKP61R

Code:C40

金属化聚丙烯膜抗干扰阻容模块(X2类, 300Vac) Metallized polypropylene film Interference Suppression RC-unit(Class X2, 300Vac)

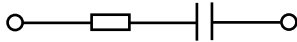
外形图 Outline Drawing



侧面印章
Side Marking $W \pm 0.4, H \pm 0.4, T \pm 0.4$

或顶部印章
or Top Marking

电路结构图 Electrical Connection



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 具有良好的抑制噪音, 吸收能量尖峰和阻尼作用

Features

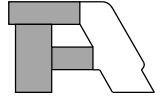
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Excellent active noise suppression, absorbing peak and energy, damp

安全认证 Safety Approvals

●		CQC (中国)	GB/T 6346.14-2015, X2, 300Vac, 0.01 μ F~1.0 μ F, 10.0 Ω ~1000.0 Ω , 40/085/56/B 证书号(Certificate No.): CQC03001007467
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016 X2, 300Vac, 0.01 μ F~1.0 μ F, 10.0 Ω ~1000.0 Ω , 40/085/56/B 证书号(Certificate No.): SE-ENEC-2100675
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X2, 300Vac, 0.01 μ F~1.0 μ F, 10.0 Ω ~1000.0 Ω , 40/085/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

电容器类别 Class	X2 类	
气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/085/56/B	
工作温度范围 Operating Temperature Range	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C	
额定电压 Rated Voltage(U_R)	300Vac, 50Hz/60Hz	
电容量范围和偏差 Capacitance Range and Tolerance	0..10 μ F ~ 1.0 μ F, $\pm 20\%$ (M)	
电阻范围和偏差 Resistance range and Tolerance	10.0 Ω ~ 1000.0M Ω , $\pm 30\%$ $C_N R_N < 50\mu s, 100kHz$ $C_N R_N \geq 50\mu s, 1kHz$	
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3 U_R (Vdc), 2s
	极壳之间 Between Terminals To Case:	2 120Vac, 1min
损耗角正切 Dissipation Factor($\tan\delta$)	$R \geq 15\ 000M\Omega, C_N \leq 0.33\mu F$ $R C_N \geq 5\ 000s, C_N > 0.33\mu F$ (20 $^{\circ}$ C, 100V, 1min)	



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

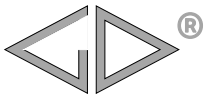
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	0												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C40=MKP61R		C40=MKP61R
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q1=300V		Q1=300V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	M=±20%		M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	6=14.0mm 7=18.0mm		6=14.0mm 7=18.0mm
	9=22.5mm B=27.5mm		9=22.5mm B=27.5mm
第 11 位	电阻值代码	Digit 11	Resistor code
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位和第 14 位 Digit 13 and Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
C	直脚 Straight lead "C" in the figure above	45	引线长度 4.5mm lead length 4.5mm	0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
D	软绝缘线(多股) Insulated stranded leads	C5	35mm	1	引线长度偏差 -5mm ~0mm Length tolerance -5 mm ~0 mm
E	硬绝缘线(单股) Insulated solid leads	K0	100mm		
M	软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	K2	120mm		
		L0	200mm	2	引线长度偏差 0 mm ~+5 mm Length tolerance 0 mm ~+5 mm
			注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts	3	引线长度偏差 0 mm ~+10mm Length tolerance 0 mm ~+10mm
			注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads	4	引线长度偏差±5 mm Length tolerance±5 mm



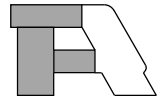
MKP61R
Code:C40

■ 外形尺寸 Dimensions(mm)

300Vac							
C _N (μF)	R _N (Ω)	W	H	T	P	d	Part number
0.010M	10~ 470	18.0	14.0	5.0	14.0	0.6	C40Q1103M6#****
0.015M	10~ 470	18.0	14.0	5.0	14.0	0.6	C40Q1153M6#****
0.022M	10~ 470	18.0	14.0	5.0	14.0	0.6	C40Q1223M6#****
0.033M	10~ 470	18.0	14.0	5.0	14.0	0.6	C40Q1333M6#****
0.047M	10~ 470	18.0	14.0	5.0	14.0	0.6	C40Q1473M6#****
0.068M	10~ 470	22.0	14.0	6.0	18.0	0.6	C40Q1683M7#****
0.10M	10~ 470	22.0	14.0	6.0	18.0	0.6	C40Q1104M7#****
0.10M	10~ 470	26.5	16.0	7.0	22.5	0.8	C40Q1104M9#****
0.15M	10~ 220	26.5	16.0	7.0	22.5	0.8	C40Q1154M9#****
0.20M	10~ 220	26.5	16.0	7.0	22.5	0.8	C40Q1204M9#****
0.22M	10~ 220	26.5	16.0	7.0	22.5	0.8	C40Q1224M9#****
0.25M	10~ 220	26.5	17.0	8.5	22.5	0.8	C40Q1254M9#****
0.30M	10~ 120	32.0	18.0	9.0	27.5	0.8	C40Q1304MB#****
0.33M	10~ 120	32.0	18.0	9.0	27.5	0.8	C40Q1334MB#****
0.47M	10~ 120	32.0	20.0	11.0	27.5	0.8	C40Q1474MB#****
0.50M	10~ 100	32.0	20.0	11.0	27.5	0.8	C40Q1504MB#****
0.68M	10~ 47	32.0	22.0	13.0	27.5	0.8	C40Q1684MB#****
1.0M	10~ 27	32.0	22.0	13.0	27.5	0.8	C40Q1105MB#****

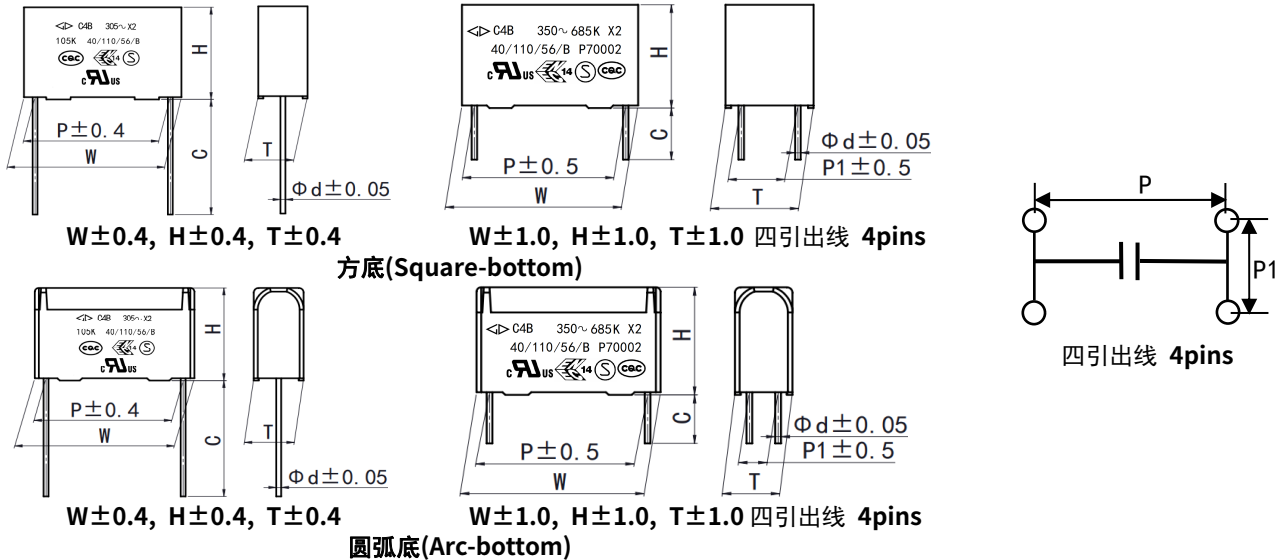
- 备注 Note: 1. “****” 表示引线加工和包装代码(见表 1)。 “****” =lead form and packing code(refer to table 1).
 2. “#” 表示电阻值代码。 “#” =Resistor code.
 3. “#” 对应的电阻值表。 Digit 11: “#” =Value code of the discharge resistor (tolerance±30%).

电阻值 R _N	10Ω	22Ω	27Ω	47Ω	51Ω	68Ω	100Ω	120Ω	220Ω	250Ω	330Ω	360Ω	470Ω	1 000Ω
代码 Code	L	N	P	A	B	S	C	D	E	Q	G	R	F	H



金属化聚丙烯膜抗干扰电容器(X2类, 305Vac/350Vac) Metallized polypropylene film Interference Suppression capacitor(Class X2, 305Vac/350Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

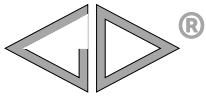
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac&350Vac, 0.010μF ~ 25.0μF, 40/110/56/B 证书号(Certificate No.): CQC14001118716
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac&350Vac, 0.010μF ~ 25.0μF, 40/110/56/B 证书号(Certificate No.): SE/0366-6B
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X2, 305Vac&350Vac, 0.010μF ~ 25.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	305Vac, 50Hz/60Hz	350Vac, 50Hz/60Hz	
最大连续直流电压 Maximum continuous DC voltage	560Vdc	630Vdc	
电容量范围 Capacitance Range	0.010μF ~ 25.0μF	0.010μF ~ 20.0μF	
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 200Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF (20°C, 100V, 1min) RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	0.010μF ≤ C _N ≤ 1.0μF	≤ 15 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
	1.0μF < C _N ≤ 10.0μF	≤ 30 × 10 ⁻⁴ (20°C, 1kHz)	-----
	C _N > 10.0μF	≤ 40 × 10 ⁻⁴ (20°C, 1kHz)	-----
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 3. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



C4B
Code:C4B

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

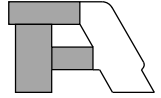
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	B												

第 1~3 位	型号代码 C4B	Digit 1 to 3	Series code C4B
第 4~5 位	交流额定电压 R2=350V Q2=305V	Digit 4 to 5	AC rated voltage R2=350V Q2=305V
第 6~8 位	标称容量 举例: 103=10×10³pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差 K=±10%, M=±20%	Digit 9	Capacitance tolerance K=±10%, M=±20%
第 10 位	引线脚距 P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm	Digit 10	Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15			
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation		
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm (For pitch=7.5mm)		
		4	F=10.0mm			5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)		
		6	F=15.0mm						
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance ±0.5mm Or standard length		
		00	标准的引线长度(18mm~26 mm) standard lead length						
		45	引线长度 4.5mm lead length 4.5mm						
D E M	软绝缘线(多股) Insulated stranded leads 硬绝缘线(单股) Insulated solid leads 软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	C5	35mm	1		1	引线长度偏差 -5mm~0mm Length tolerance -5 mm ~0 mm		
		K0	100mm						
		K2	120mm					2	引线长度偏差 0 mm~+5 mm Length tolerance 0 mm ~+5 mm
		L0	200mm					3	引线长度偏差 0 mm~+10mm Length tolerance 0 mm ~+10mm
			注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts 注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads					4	引线长度偏差±5 mm Length tolerance ±5 mm
T 3	P1=20.3mm±0.5mm P1=20mm±0.5mm	45	引线长度 4.5mm lead length 4.5mm	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance ±0.5mm Or standard length		
		55	引线长度 5.5mm lead length 5.5mm						

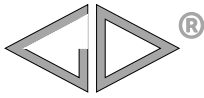


■ 外形尺寸 Dimensions(mm)

305Vac						
C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C4BQ2103-4S****
0.012	13.0	9.0	4.0	10.0	0.6	C4BQ2123-4S****
0.015	13.0	9.0	4.0	10.0	0.6	C4BQ2153-4S****
0.018	13.0	9.0	4.0	10.0	0.6	C4BQ2183-4S****
0.022	13.0	9.0	4.0	10.0	0.6	C4BQ2223-4S****
0.027	13.0	9.0	4.0	10.0	0.6	C4BQ2273-4S****
0.033	13.0	9.0	4.0	10.0	0.6	C4BQ2333-4S****
0.039	13.0	11.0	5.0	10.0	0.6	C4BQ2393-4S****
0.047	13.0	11.0	5.0	10.0	0.6	C4BQ2473-4S****
0.056	13.0	11.0	5.0	10.0	0.6	C4BQ2563-4S****
0.068	13.0	11.0	5.0	10.0	0.6	C4BQ2683-4S****
0.082	13.0	12.0	6.0	10.0	0.6	C4BQ2823-4S****
0.10	13.0	13.0	7.0	10.0	0.6	C4BQ2104-4S****
0.022	17.5	9.5	5.0	15.0	0.6	C4BQ2223-6S****
0.027	17.5	9.5	5.0	15.0	0.6	C4BQ2273-6S****
0.033	17.5	9.5	5.0	15.0	0.6	C4BQ2333-6S****
0.039	17.5	9.5	5.0	15.0	0.6	C4BQ2393-6S****
0.047	17.5	9.5	5.0	15.0	0.6	C4BQ2473-6S****
0.056	17.5	9.5	5.0	15.0	0.6	C4BQ2563-6S****
0.068	17.5	9.5	5.0	15.0	0.6	C4BQ2683-6S****
0.082	17.5	9.5	5.0	15.0	0.6	C4BQ2823-6S****
0.10	17.5	11.0	5.0	15.0	0.6	C4BQ2104-6S****
0.12	17.5	12.0	6.0	15.0	0.6	C4BQ2124-6S****
0.15	17.5	12.0	6.0	15.0	0.6	C4BQ2154-6S****
0.18	17.5	13.5	7.5	15.0	0.6	C4BQ2184-6S****
0.22	17.5	13.5	7.5	15.0	0.6	C4BQ2224-6S****
0.27	17.5	14.5	8.5	15.0	0.6	C4BQ2274-6S****
0.33	17.5	14.5	8.5	15.0	0.6	C4BQ2334-6S****
0.39	17.5	16.0	10.0	15.0	0.8	C4BQ2394-6S****
0.47	17.5	19.0	11.0	15.0	0.8	C4BQ2474-6S****
0.33	26.5	15.0	6.0	22.5	0.8	C4BQ2334-9S****
0.39	26.5	15.0	6.0	22.5	0.8	C4BQ2394-9S****
0.47	26.5	16.0	7.0	22.5	0.8	C4BQ2474-9S****
0.56	26.5	17.0	8.5	22.5	0.8	C4BQ2564-9S****
0.68	26.5	17.0	8.5	22.5	0.8	C4BQ2684-9S****
0.82	26.5	18.5	10.0	22.5	0.8	C4BQ2824-9S****
1.0	26.5	20.0	11.0	22.5	0.8	C4BQ2105-9S****
1.2	26.5	22.0	12.0	22.5	0.8	C4BQ2125-9S****
1.5	26.5	23.0	13.5	22.5	0.8	C4BQ2155-9S****
1.8	26.5	24.5	15.5	22.5	0.8	C4BQ2185-9S****
2.2M	26.5	24.5	15.5	22.5	0.8	C4BQ2225M9B****
2.2	26.5	29.5	14.5	22.5	0.8	C4BQ2225-9S****

305Vac						
C _N (μF)	W	H	T	P	d	Part number
0.47	32.0	18.0	9.0	27.5	0.8	C4BQ2474-BS****
0.56	32.0	18.0	9.0	27.5	0.8	C4BQ2564-BS****
0.68	32.0	18.0	9.0	27.5	0.8	C4BQ2684-BS****
0.82	32.0	18.0	9.0	27.5	0.8	C4BQ2824-BS****
1.0	32.0	18.0	9.0	27.5	0.8	C4BQ2105-BS****
1.2	32.0	20.0	11.0	27.5	0.8	C4BQ2125-BS****
1.5M	32.0	20.0	11.0	27.5	0.8	C4BQ2155MBS****
1.8	32.0	22.0	13.0	27.5	0.8	C4BQ2185-BS****
2.2	32.0	24.5	15.0	27.5	0.8	C4BQ2225-BS****
2.7	32.0	28.0	14.0	27.5	0.8	C4BQ2275-BS****
3.3	32.0	30.0	16.0	27.5	0.8	C4BQ2335-BS****
3.9M	32.0	33.0	18.0	27.5	0.8	C4BQ2395MBS****
4.7M	32.0	33.0	18.0	27.5	0.8	C4BQ2475MBS****
5.6	32.0	37.0	22.0	27.5	0.8	C4BQ2565-BS****
6.8M	32.0	37.0	22.0	27.5	0.8	C4BQ2685MBS****
1.0	41.0	22.0	11.0	37.5	1.0	C4BQ2105-FS****
1.2	41.0	22.0	11.0	37.5	1.0	C4BQ2125-FS****
1.5	41.0	22.0	11.0	37.5	1.0	C4BQ2155-FS****
1.8	41.0	22.0	11.0	37.5	1.0	C4BQ2185-FS****
2.2	41.0	24.0	13.0	37.5	1.0	C4BQ2225-FS****
2.7	41.0	26.0	15.0	37.5	1.0	C4BQ2275-FS****
3.3	41.0	26.0	15.0	37.5	1.0	C4BQ2335-FA****
3.3	42.0	28.0	14.0	37.5	1.0	C4BQ2335-FS****
3.9	41.0	30.0	16.0	37.5	1.0	C4BQ2395-FS****
4.7M	41.0	30.0	16.0	37.5	1.0	C4BQ2475MFS****
4.7K	41.0	32.0	17.0	37.5	1.0	C4BQ2475KFS****
5.6	41.0	33.5	18.5	37.5	1.0	C4BQ2565-FS****
★ 6.8	41.0	34.0	20.0	37.5	1.0	C4BQ2685-FS****
8.2	41.0	37.0	22.0	37.5	1.0	C4BQ2825-FS****
★ 10.0	41.0	41.0	26.0	37.5	1.0	C4BQ2106-FS****
12.0	41.0	43.0	28.0	37.5	1.0	C4BQ2126-FS****
15.0M	42.0	45.0	30.0	37.5	1.0	C4BQ2156MFS****
★ 15.0K	42.0	50.0	30.0	37.5	1.0	C4BQ2156KFS****
18.0	57.0	45.0	30.0	52.5	1.2	C4BQ2186-MST***
20.0	57.0	45.0	30.0	52.5	1.2	C4BQ2206-MST***
25.0	57.0	50.0	35.0	52.5	1.2	C4BQ2256-MST***

备注 Note: 1. “-”表示容量偏差。“”=capacitance tolerance code. M=±20%, K=±10%.
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★”= Arc bottom of the outer shell.



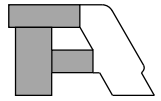
C4B
Code:C4B

■ 外形尺寸 Dimensions(mm)

350Vac						
C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C4BR2103-40****
0.012	13.0	9.0	4.0	10.0	0.6	C4BR2123-40****
0.015	13.0	9.0	4.0	10.0	0.6	C4BR2153-40****
0.018	13.0	9.0	4.0	10.0	0.6	C4BR2183-40****
0.022	13.0	9.0	4.0	10.0	0.6	C4BR2223-40****
0.027	13.0	11.0	5.0	10.0	0.6	C4BR2273-40****
0.033	13.0	11.0	5.0	10.0	0.6	C4BR2333-40****
0.039	13.0	11.0	5.0	10.0	0.6	C4BR2393-40****
0.047	13.0	12.0	6.0	10.0	0.6	C4BR2473-40****
0.056	13.0	12.0	6.0	10.0	0.6	C4BR2563-40****
0.010	17.5	9.5	5.0	15.0	0.6	C4BR2103-60****
0.012	17.5	9.5	5.0	15.0	0.6	C4BR2123-60****
0.015	17.5	9.5	5.0	15.0	0.6	C4BR2153-60****
0.018	17.5	9.5	5.0	15.0	0.6	C4BR2183-60****
0.022	17.5	9.5	5.0	15.0	0.6	C4BR2223-60****
0.027	17.5	9.5	5.0	15.0	0.6	C4BR2273-60****
0.033	17.5	9.5	5.0	15.0	0.6	C4BR2333-60****
0.039	17.5	9.5	5.0	15.0	0.6	C4BR2393-60****
0.047	17.5	11.0	5.0	15.0	0.6	C4BR2473-60****
0.056	17.5	11.0	5.0	15.0	0.6	C4BR2563-60****
0.068	17.5	12.0	6.0	15.0	0.6	C4BR2683-60****
0.082	17.5	12.0	6.0	15.0	0.6	C4BR2823-60****
0.10	17.5	12.0	6.0	15.0	0.6	C4BR2104-60****
0.12	17.5	13.5	7.5	15.0	0.6	C4BR2124-60****
0.15	17.5	13.5	7.5	15.0	0.6	C4BR2154-60****
0.18	17.5	14.5	8.5	15.0	0.6	C4BR2184-60****
0.22	17.5	14.5	8.5	15.0	0.6	C4BR2224-60****
0.27	17.5	16.0	10.0	15.0	0.8	C4BR2274-60****
0.33	17.5	19.0	11.0	15.0	0.8	C4BR2334-60****
0.10	26.5	15.0	6.0	22.5	0.8	C4BR2104-90****
0.12	26.5	15.0	6.0	22.5	0.8	C4BR2124-90****
0.15	26.5	15.0	6.0	22.5	0.8	C4BR2154-90****
0.18	26.5	15.0	6.0	22.5	0.8	C4BR2184-90****
0.22	26.5	15.0	6.0	22.5	0.8	C4BR2224-90****
0.27	26.5	15.0	6.0	22.5	0.8	C4BR2274-90****
0.33	26.5	16.0	7.0	22.5	0.8	C4BR2334-90****
0.39	26.5	17.0	8.5	22.5	0.8	C4BR2394-90****
0.47	26.5	17.0	8.5	22.5	0.8	C4BR2474-90****
0.56	26.5	18.5	10.0	22.5	0.8	C4BR2564-90****
0.68	26.5	18.5	10.0	22.5	0.8	C4BR2684-90****
0.82	26.5	20.0	11.0	22.5	0.8	C4BR2824-90****
1.0	26.5	22.0	12.0	22.5	0.8	C4BR2105-90****
1.2	26.5	23.0	13.5	22.5	0.8	C4BR2125-90****
1.5	26.5	24.5	15.5	22.5	0.8	C4BR2155-90****

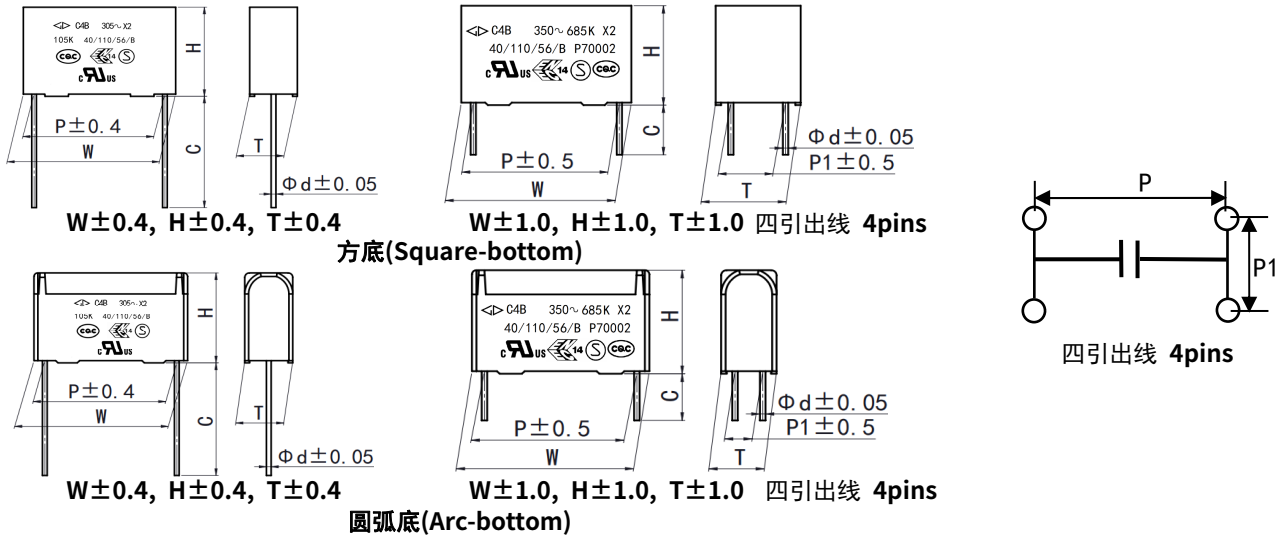
350Vac						
C _N (μF)	W	H	T	P	d	Part number
0.22	32.0	18.0	9.0	27.5	0.8	C4BR2224-B0****
0.27	32.0	18.0	9.0	27.5	0.8	C4BR2274-B0****
0.33	32.0	18.0	9.0	27.5	0.8	C4BR2334-B0****
0.39	32.0	18.0	9.0	27.5	0.8	C4BR2394-B0****
0.47M	32.0	18.0	9.0	27.5	0.8	C4BR2474MB0****
0.56	32.0	18.0	9.0	27.5	0.8	C4BR2564-B0****
0.68	32.0	18.0	9.0	27.5	0.8	C4BR2684-B0****
0.82	32.0	20.0	11.0	27.5	0.8	C4BR2824-B0****
1.0	32.0	20.0	11.0	27.5	0.8	C4BR2105-B0****
1.2	32.0	22.0	13.0	27.5	0.8	C4BR2125-B0****
1.5	32.0	25.0	13.0	27.5	0.8	C4BR2155-B0****
1.8	32.0	24.5	15.0	27.5	0.8	C4BR2185-B0****
2.2	32.0	30.0	16.0	27.5	0.8	C4BR2225-B0****
2.7	32.0	33.0	18.0	27.5	0.8	C4BR2275-B0****
3.3M	32.0	33.0	18.0	27.5	0.8	C4BR2335MB0****
3.9	32.0	37.0	22.0	27.5	0.8	C4BR2395-B0****
4.7M	32.0	37.0	22.0	27.5	0.8	C4BR2475MB0****
0.33	41.0	22.0	11.0	37.5	1.0	C4BR2334-F0****
0.39	41.0	22.0	11.0	37.5	1.0	C4BR2394-F0****
0.47	41.0	22.0	11.0	37.5	1.0	C4BR2474-F0****
0.56	41.0	22.0	11.0	37.5	1.0	C4BR2564-F0****
0.68	41.0	22.0	11.0	37.5	1.0	C4BR2684-F0****
0.82	41.0	22.0	11.0	37.5	1.0	C4BR2824-F0****
1.0	41.0	22.0	11.0	37.5	1.0	C4BR2105-F0****
1.2	41.0	22.0	11.0	37.5	1.0	C4BR2125-F0****
1.5	41.0	24.0	13.0	37.5	1.0	C4BR2155-F0****
1.8	41.0	24.0	13.0	37.5	1.0	C4BR2185-F0****
2.2	41.0	26.0	15.0	37.5	1.0	C4BR2225-F0****
2.7	41.0	30.0	16.0	37.5	1.0	C4BR2275-F0****
3.3	41.0	30.0	16.0	37.5	1.0	C4BR2335-F0****
3.9M	41.0	32.0	17.0	37.5	1.0	C4BR2395MF0****
3.9K	41.0	33.5	18.5	37.5	1.0	C4BR2395KF0****
★ 4.7	41.0	34.0	20.0	37.5	1.0	C4BR2475-F0****
5.6	41.0	37.0	22.0	37.5	1.0	C4BR2565-F0****
6.8M	41.0	37.0	22.0	37.5	1.0	C4BR2685MF0****
★ 6.8K	41.0	37.0	26.0	37.5	1.0	C4BR2685KF0****
8.2	41.0	41.0	26.0	37.5	1.0	C4BR2825-F0****
10.0	42.0	45.0	30.0	37.5	1.0	C4BR2106-F0****
15.0	57.0	45.0	30.0	52.5	1.2	C4BR2156-M0T***
18.0	57.0	45.0	35.0	52.5	1.2	C4BR2186-M0T***
20.0	57.0	50.0	35.0	52.5	1.2	C4BR2206-M0T***

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.



金属化聚丙烯膜抗干扰电容器(X2类, 305Vac/350Vac, THB 防潮系列) Metallized polypropylene film Interference Suppression capacitor (Class X2, 305Vac/350Vac, Temperature Humidity Bias(THB) series)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 在严苛的环境下(如高温高湿)长期应用容量稳定性优异
- 用于电源跨线路等抗干扰场合

Features

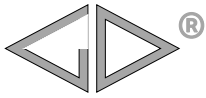
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- High stability of capacitance under severe ambient condition, such as high temperature and high humidity
- Used in across-the-line, interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac&350Vac, 0.010 μ F ~ 25.0 μ F, 40/110/56/B 证书号(Certificate No.): CQC14001118716
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac&350Vac, 0.010 μ F ~ 25.0 μ F, 40/110/56/B 证书号(Certificate No.): SE/0366-6B
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X2, 305Vac&350Vac, 0.010 μ F ~ 25.0 μ F, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U_R)	305Vac, 50Hz/60Hz	350Vac, 50Hz/60Hz	
最大连续直流电压 Maximum continuous DC voltage	560Vdc	630Vdc	
电容量范围 Capacitance Range	0.010 μ F ~ 25.0 μ F	0.010 μ F ~ 20.0 μ F	
电容量偏差 Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)		
耐压 Voltage Proof	引线之间 Between Terminals:	4.3 U_R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 200Vac, 1min	
绝缘电阻 Insulation Resistance	$R \geq 15\ 000\ \Omega$, $C_N \leq 0.33\ \mu\text{F}$ $RC_N \geq 5\ 000\text{s}$, $C_N > 0.33\ \mu\text{F}$ (20°C, 100V, 1min)		
损耗角正切 Dissipation Factor($\tan\delta$)	$0.010\ \mu\text{F} \leq C_N \leq 1.0\ \mu\text{F}$	$\leq 15 \times 10^{-4}$ (20°C, 1kHz)	$\leq 40 \times 10^{-4}$ (20°C, 1kHz)
	$1.0\ \mu\text{F} < C_N \leq 10.0\ \mu\text{F}$	$\leq 30 \times 10^{-4}$ (20°C, 1kHz)	-----
	$C_N > 10.0\ \mu\text{F}$	$\leq 40 \times 10^{-4}$ (20°C, 1kHz)	-----
防潮测试 THB test (Damp heat test with loading)	Temperature: 85°C \pm 2°C; Humidity: 85%RH \pm 2%RH Voltage: 300Vac 50Hz; Duration: 1 000 hours($C_N > 0.47\ \mu\text{F}$) Capacitance change($\Delta C/C$): $\leq 10\%$ Dissipation factor change ($\Delta \tan\delta$): $\leq 0.5\%$ (1kHz) Insulation resistance: $\geq 50\%$ of the rated value		



C4B
Code:C4B(W/V)

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

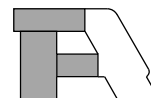
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	B								W/V				

第 1~3 位	型号代码 C4B	Digit 1 to 3	Series code C4B
第 4~5 位	交流额定电压 R2=350V Q2=305V	Digit 4 to 5	AC rated voltage R2=350V Q2=305V
第 6~8 位	标称容量 举例: 103=10×10³pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差 K=±10%, M=±20%	Digit 9	Capacitance tolerance K=±10%, M=±20%
第 10 位	引线脚距 P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm	Digit 10	Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm
第 11 位	内部特征码: W 或 V	Digit 11	Internal use: W 或 V
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)
		4	F=10.0mm			5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
		6	F=15.0mm				
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				
D E M	软绝缘线(多股) Insulated stranded leads 硬绝缘线(单股) Insulated solid leads 软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	C5	35mm	1		1	引线长度偏差 -5mm~0mm Length tolerance -5 mm~0 mm
		K0	100mm				
		K2	120mm				
		L0	200mm 注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts 注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads				
T 3	P1=20.3mm±0.5mm P1=20mm±0.5mm	45	引线长度 4.5mm lead length 4.5mm	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		55	引线长度 5.5mm lead length 5.5mm				

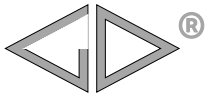


■ 外形尺寸 Dimensions(mm)

305Vac						
C _N (μF)	W	H	T	P	d	Part number
0.10	17.5	12.0	6.0	15.0	0.6	C4BQ2104-6V****
0.12	17.5	12.0	6.0	15.0	0.6	C4BQ2124-6W****
0.15	17.5	13.5	7.5	15.0	0.6	C4BQ2154-6V****
0.18	17.5	13.5	7.5	15.0	0.6	C4BQ2184-6W****
0.22	17.5	14.5	8.5	15.0	0.6	C4BQ2224-6V****
0.27	17.5	14.5	8.5	15.0	0.6	C4BQ2274-6W****
0.33	17.5	16.0	10.0	15.0	0.6	C4BQ2334-6V****
0.39	17.5	18.0	10.0	15.0	0.8	C4BQ2394-6V****
0.47	17.5	19.0	11.0	15.0	0.8	C4BQ2474-6W****
0.33	26.5	16.0	7.0	22.5	0.8	C4BQ2334-9V****
0.39	26.5	17.0	8.5	22.5	0.8	C4BQ2394-9V****
0.47	26.5	17.0	8.5	22.5	0.8	C4BQ2474-9W****
0.56	26.5	18.5	9.0	22.5	0.8	C4BQ2564-9V****
0.68	26.5	18.5	10.0	22.5	0.8	C4BQ2684-9W****
0.82	26.5	20.0	11.0	22.5	0.8	C4BQ2824-9V****
1.0	26.5	22.0	12.0	22.5	0.8	C4BQ2105-9V****
1.2	26.5	22.0	12.0	22.5	0.8	C4BQ2125-9W****
1.5M	26.5	23.0	13.5	22.5	0.8	C4BQ2155M9W****
1.5	26.5	24.5	14.5	22.5	0.8	C4BQ2155-9V****
1.8	26.5	24.5	15.5	22.5	0.8	C4BQ2185-9W****
2.2M	26.5	29.5	14.5	22.5	0.8	C4BQ2225M9W****
2.2	26.5	31.0	15.5	22.5	0.8	C4BQ2225-9V****
0.47	32.0	18.0	9.0	27.5	0.8	C4BQ2474-BW****
0.56	32.0	18.0	9.0	27.5	0.8	C4BQ2564-BW****
0.68	32.0	20.0	11.0	27.5	0.8	C4BQ2684-BV****
0.82	32.0	20.0	11.0	27.5	0.8	C4BQ2824-BV****
1.0	32.0	20.0	11.0	27.5	0.8	C4BQ2105-BW****
1.2	32.0	20.0	11.0	27.5	0.8	C4BQ2125-BW****
1.5	32.0	22.0	13.0	27.5	0.8	C4BQ2155-BW****
1.8	32.0	25.0	13.0	27.5	0.8	C4BQ2185-BW****

305Vac						
C _N (μF)	W	H	T	P	d	Part number
2.2	32.0	24.5	15.0	27.5	0.8	C4BQ2225-BW****
2.7	32.0	30.0	16.0	27.5	0.8	C4BQ2275-BW****
3.3M	32.0	30.0	16.0	27.5	0.8	C4BQ2335MBW****
3.3	32.0	29.0	19.0	27.5	0.8	C4BQ2335-BV****
3.9	32.0	33.0	18.0	27.5	0.8	C4BQ2395-BW****
★ 4.7M	32.0	34.0	20.0	27.5	0.8	C4BQ2475MBV****
4.7K	32.0	34.0	20.0	27.5	0.8	C4BQ2475KBW****
★ 5.6	32.0	37.0	22.0	27.5	0.8	C4BQ2565-BW****
6.8	32.0	40.5	24.0	27.5	0.8	C4BQ2685-BV****
★ 1.5	41.0	22.0	11.0	37.5	1.0	C4BQ2155-FW****
★ 1.8	41.0	24.0	13.0	37.5	1.0	C4BQ2185-FV****
★ 2.2	41.0	24.0	13.0	37.5	1.0	C4BQ2225-FW****
★ 2.7	41.0	26.0	15.0	37.5	1.0	C4BQ2275-FV****
★ 3.3M	42.0	28.0	14.0	37.5	1.0	C4BQ2335MFW****
★ 3.3	41.0	28.0	17.0	37.5	1.0	C4BQ2335-FV****
3.9	41.0	30.0	16.0	37.5	1.0	C4BQ2395-FW****
★ 4.7M	41.0	32.0	17.0	37.5	1.0	C4BQ2475MFV****
★ 4.7K	41.0	32.0	17.0	37.5	1.0	C4BQ2475KFW****
5.6	41.0	33.5	18.5	37.5	1.0	C4BQ2565-FW****
6.8M	41.0	34.0	20.0	37.5	1.0	C4BQ2685MFW****
6.8K	41.0	37.0	22.0	37.5	1.0	C4BQ2685KFW****
8.2	41.0	37.0	26.0	37.5	1.0	C4BQ2825-FV****
10.0	41.0	41.0	26.0	37.5	1.0	C4BQ2106-FW****
★ 12.0	41.0	43.0	28.0	37.5	1.0	C4BQ2126-FW****
★ 15.0M	42.0	45.0	30.0	37.5	1.0	C4BQ2156MFW****
★ 15.0K	42.0	50.0	30.0	37.5	1.0	C4BQ2156KFW****
★ 18.0	57.0	45.0	30.0	52.5	1.2	C4BQ2186-MWT***
★ 20.0M	57.0	45.0	30.0	52.5	1.2	C4BQ2206MMWT***
★ 20.0K	57.0	48.0	30.0	52.5	1.2	C4BQ2206KMVT***
25.0	57.0	50.0	35.0	52.5	1.2	C4BQ2256-MWT***

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.



C4B
Code:C4B(W/V)

■ 外形尺寸 Dimensions(mm)

350Vac						
C _N (μF)	W	H	T	P	d	Part number
0.10	17.5	13.5	7.5	15.0	0.6	C4BR2104-6W****
0.12	17.5	13.5	7.5	15.0	0.6	C4BR2124-6W****
0.15	17.5	14.5	8.5	15.0	0.6	C4BR2154-6V****
0.18	17.5	14.5	8.5	15.0	0.6	C4BR2184-6W****
0.22	17.5	16.0	10.0	15.0	0.6	C4BR2224-6V****
0.27	17.5	16.0	10.0	15.0	0.8	C4BR2274-6W****
0.33	17.5	19.0	11.0	15.0	0.8	C4BR2334-6W****
0.10	26.5	15.0	6.0	22.5	0.8	C4BR2104-9W****
0.12	26.5	15.0	6.0	22.5	0.8	C4BR2124-9W****
0.15	26.5	16.0	7.0	22.5	0.8	C4BR2154-9V****
0.18	26.5	16.0	7.0	22.5	0.8	C4BR2184-9V****
0.22	26.5	16.0	7.0	22.5	0.8	C4BR2224-9V****
0.27	26.5	16.0	7.0	22.5	0.8	C4BR2274-9W****
0.33	26.5	17.0	8.5	22.5	0.8	C4BR2334-9V****
0.39M	26.5	17.0	8.5	22.5	0.8	C4BR2394M9W****
0.39K	26.5	18.5	9.0	22.5	0.8	C4BR2394K9V****
0.47M	26.5	18.5	9.0	22.5	0.8	C4BR2474M9V****
0.47K	26.5	18.5	10.0	22.5	0.8	C4BR2474K9W****
0.56	26.5	18.5	10.0	22.5	0.8	C4BR2564-9W****
0.68M	26.5	20.0	11.0	22.5	0.8	C4BR2684M9V****
0.68K	26.5	21.0	11.0	22.5	0.8	C4BR2684K9V****
0.82	26.5	22.0	12.0	22.5	0.8	C4BR2824-9V****
1.0	26.5	23.0	13.5	22.5	0.8	C4BR2105-9V****
1.2	26.5	24.5	14.5	22.5	0.8	C4BR2125-9V****
1.5	26.5	29.5	14.5	22.5	0.8	C4BR2155-9V****
1.8	26.5	31.0	15.5	22.5	0.8	C4BR2185-9V****
0.22	32.0	18.0	9.0	27.5	0.8	C4BR2224-BW****
0.27	32.0	18.0	9.0	27.5	0.8	C4BR2274-BW****
0.33	32.0	18.0	9.0	27.5	0.8	C4BR2334-BW****
0.39	32.0	18.0	9.0	27.5	0.8	C4BR2394-BW****
0.47	32.0	18.0	9.0	27.5	0.8	C4BR2474-BW****
0.56	32.0	18.0	9.0	27.5	0.8	C4BR2564-BW****
0.68	32.0	20.0	11.0	27.5	0.8	C4BR2684-BW****
0.82	32.0	20.0	11.0	27.5	0.8	C4BR2824-BW****
★1.0M	32.0	22.0	11.0	27.5	0.8	C4BR2105MBV****
1.0K	32.0	22.0	13.0	27.5	0.8	C4BR2105KBW****

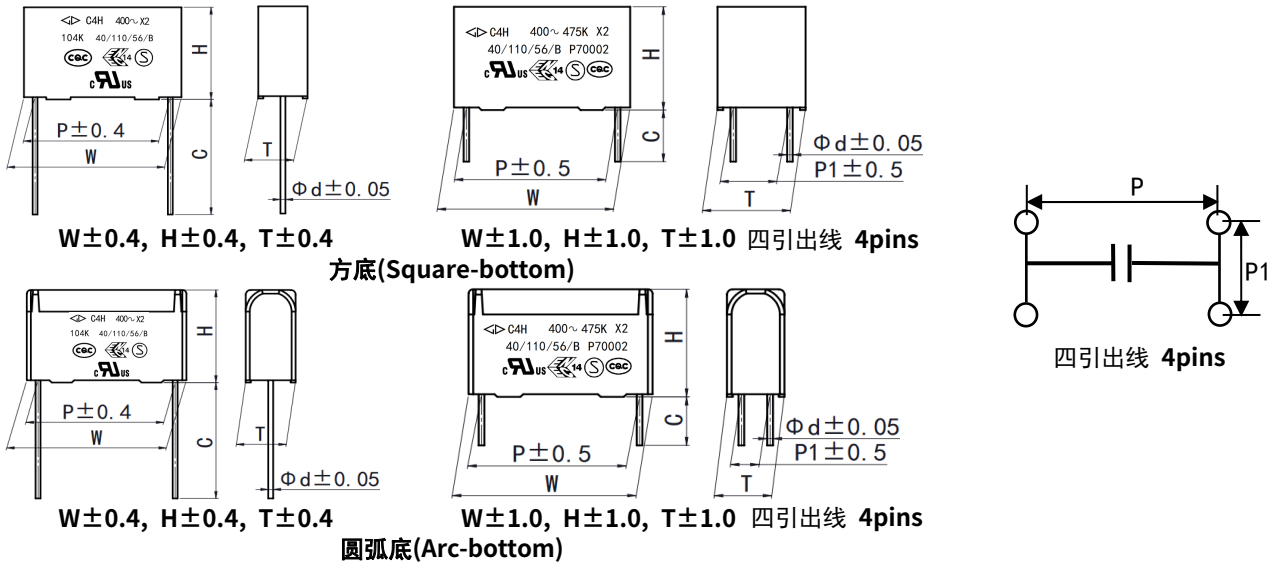
350Vac						
C _N (μF)	W	H	T	P	d	Part number
1.2	32.0	22.0	13.0	27.5	0.8	C4BR2125-BW****
1.5	32.0	24.5	15.0	27.5	0.8	C4BR2155-BV****
1.8	32.0	28.0	14.0	27.5	0.8	C4BR2185-BW****
2.2	32.0	30.0	16.0	27.5	0.8	C4BR2225-BW****
2.7	32.0	33.0	18.0	27.5	0.8	C4BR2275-BW****
3.3M	32.0	33.0	18.0	27.5	0.8	C4BR2335MBW****
3.3K	32.0	38.0	18.0	27.5	0.8	C4BR2335KBW****
★ 3.9	32.0	37.0	22.0	27.5	0.8	C4BR2395-BW****
★ 4.7M	32.0	37.0	22.0	27.5	0.8	C4BR2475MBW****
4.7K	32.0	38.0	24.0	27.5	0.8	C4BR2475KBV****
★ 0.33	41.0	22.0	11.0	37.5	1.0	C4BR2334-FW****
★ 0.39	41.0	22.0	11.0	37.5	1.0	C4BR2394-FW****
★ 0.47	41.0	22.0	11.0	37.5	1.0	C4BR2474-FW****
★ 0.56	41.0	22.0	11.0	37.5	1.0	C4BR2564-FW****
★ 0.68	41.0	22.0	11.0	37.5	1.0	C4BR2684-FW****
★ 0.82	41.0	22.0	11.0	37.5	1.0	C4BR2824-FW****
★ 1.0	41.0	22.0	11.0	37.5	1.0	C4BR2105-FW****
★ 1.2	41.0	22.0	11.0	37.5	1.0	C4BR2125-FW****
★ 1.5	41.0	24.0	13.0	37.5	1.0	C4BR2155-FW****
★ 1.8	41.0	26.0	15.0	37.5	1.0	C4BR2185-FV****
★ 2.2	41.0	26.0	15.0	37.5	1.0	C4BR2225-FW****
2.7	41.0	30.0	16.0	37.5	1.0	C4BR2275-FW****
3.3M	41.0	30.0	16.0	37.5	1.0	C4BR2335MFW****
★ 3.3K	41.0	32.0	17.0	37.5	1.0	C4BR2335KFW****
3.9	41.0	34.0	20.0	37.5	1.0	C4BR2395-FW****
4.7M	41.0	34.0	20.0	37.5	1.0	C4BR2475MFW****
4.7K	41.0	37.0	22.0	37.5	1.0	C4BR2475KFW****
5.6	41.0	37.0	22.0	37.5	1.0	C4BR2565-FW****
★ 6.8M	41.0	37.0	24.0	37.5	1.0	C4BR2685MFV****
6.8K	41.0	37.0	26.0	37.5	1.0	C4BR2685KFW****
★ 8.2	41.0	43.0	28.0	37.5	1.0	C4BR2825-FV****
10.0	42.0	45.0	30.0	37.5	1.0	C4BR2106-FW****
★ 15.0M	57.0	45.0	30.0	52.5	1.2	C4BR2156MMWT***
★ 15.0K	57.0	48.0	30.0	52.5	1.2	C4BR2156KMVT***
18.0	57.0	48.5	34.0	52.5	1.2	C4BR2186-MVT***
20.0M	57.0	50.0	35.0	52.5	1.2	C4BR2206MMWT***
★ 20.0K	57.0	52.0	37.5	52.5	1.2	C4BR2206KMVT***

- 备注 Note: 1. “-”表示容量偏差。 “.” =capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****” =lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★” = Arc bottom of the outer shell.



金属化聚丙烯膜抗干扰电容器(X2类, 400Vac) Metallized polypropylene film Interference Suppression capacitor(Class X2, 400Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

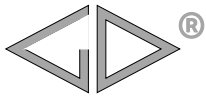
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 400Vac, 0.010μF ~ 15.0μF, 40/110/56/B 证书号(Certificate No.): CQC15001129411
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, X2, 400Vac, 0.010μF ~ 15.0μF, 40/110/56/B 证书号(Certificate No.): SE/0366-7B
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X2, 400Vac, 0.010μF ~ 10.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	400Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	760Vdc		
电容量范围 Capacitance Range	0.010μF ~ 10.0μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 300Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	0.010μF ≤ C _N ≤ 0.47μF	≤ 15 × 10 ⁻⁴ (20°C, 1kHz)	≤ 30 × 10 ⁻⁴ (20°C, 10kHz)
	0.47μF < C _N ≤ 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
	1.0μF < C _N ≤ 10.0μF	≤ 30 × 10 ⁻⁴ (20°C, 1kHz)	-----
注: 1. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 2. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



C4H
Code:C4H

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

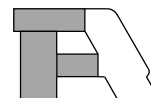
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	H												

第 1~3 位	型号代码 C4H	Digit 1 to 3	Series code C4H
第 4~5 位	交流额定电压 G2=400V	Digit 4 to 5	AC rated voltage G2=400V
第 6~8 位	标称容量 举例: 103=10×10³pF=0.01μF	Digit 6 to 8	Rated capacitance value for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差 K=±10%, M=±20%	Digit 9	Capacitance tolerance K=±10%, M=±20%
第 10 位	引线脚距 P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm	Digit 10	Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm M=52.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)
		4	F=10.0mm			5	
		6	F=15.0mm				
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				
D E M	软绝缘线(多股) Insulated stranded leads 硬绝缘线(单股) Insulated solid leads 软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	C5	35mm	注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts 注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads		1	引线长度偏差 -5mm~0mm Length tolerance -5 mm~0 mm
		K0	100mm				
		K2	120mm				
		L0	200mm				
T 3	P1=20.3mm±0.5mm P1=20mm±0.5mm	45	引线长度 4.5mm lead length 4.5mm			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		55	引线长度 5.5mm lead length 5.5mm				

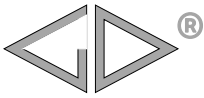


■ 外形尺寸 Dimensions(mm)

400Vac						
C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C4HG2103-40****
0.012	13.0	9.0	4.0	10.0	0.6	C4HG2123-40****
0.015	13.0	9.0	4.0	10.0	0.6	C4HG2153-40****
0.018	13.0	11.0	5.0	10.0	0.6	C4HG2183-40****
0.022	13.0	11.0	5.0	10.0	0.6	C4HG2223-40****
0.027	13.0	11.0	5.0	10.0	0.6	C4HG2273-40****
0.033	13.0	12.0	6.0	10.0	0.6	C4HG2333-40****
0.039	13.0	12.0	6.0	10.0	0.6	C4HG2393-40****
0.047	13.0	12.0	6.0	10.0	0.6	C4HG2473-40****
0.056	13.0	13.0	7.0	10.0	0.6	C4HG2563-40****
0.068	13.0	14.0	8.0	10.0	0.6	C4HG2683-40****
0.022	17.5	9.5	5.0	15.0	0.6	C4HG2223-60****
0.027	17.5	9.5	5.0	15.0	0.6	C4HG2273-60****
0.033	17.5	9.5	5.0	15.0	0.6	C4HG2333-60****
0.039	17.5	9.5	5.0	15.0	0.6	C4HG2393-60****
0.047	17.5	11.0	5.0	15.0	0.6	C4HG2473-60****
0.056	17.5	11.0	5.0	15.0	0.6	C4HG2563-60****
0.068	17.5	12.0	6.0	15.0	0.6	C4HG2683-60****
0.082	17.5	12.0	6.0	15.0	0.6	C4HG2823-60****
0.10	17.5	13.5	7.5	15.0	0.6	C4HG2104-60****
0.12	17.5	13.5	7.5	15.0	0.6	C4HG2124-60****
0.15	17.5	14.5	8.5	15.0	0.6	C4HG2154-60****
0.18	17.5	14.5	8.5	15.0	0.6	C4HG2184-60****
0.22	17.5	16.0	10.0	15.0	0.8	C4HG2224-60****
0.27	17.5	19.0	11.0	15.0	0.8	C4HG2274-60****
0.33	17.5	19.0	11.0	15.0	0.8	C4HG2334-60****
0.10	26.5	15.0	6.0	22.5	0.8	C4HG2104-90****
0.12	26.5	15.0	6.0	22.5	0.8	C4HG2124-90****
0.15	26.5	15.0	6.0	22.5	0.8	C4HG2154-90****
0.18	26.5	16.0	7.0	22.5	0.8	C4HG2184-90****
0.22	26.5	16.0	7.0	22.5	0.8	C4HG2224-90****
0.27	26.5	17.0	8.5	22.5	0.8	C4HG2274-90****
0.33	26.5	17.0	8.5	22.5	0.8	C4HG2334-90****
0.39	26.5	18.5	10.0	22.5	0.8	C4HG2394-90****
0.47	26.5	18.5	10.0	22.5	0.8	C4HG2474-90****
0.56	26.5	20.0	11.0	22.5	0.8	C4HG2564-90****
0.68	26.5	22.0	12.0	22.5	0.8	C4HG2684-90****
0.82	26.5	23.0	13.5	22.5	0.8	C4HG2824-90****
1.0	26.5	24.5	15.5	22.5	0.8	C4HG2105-90****

400Vac						
C _N (μF)	W	H	T	P	d	Part number
0.39	32.0	18.0	9.0	27.5	0.8	C4HG2394-B0****
0.47	32.0	18.0	9.0	27.5	0.8	C4HG2474-B0****
0.56	32.0	20.0	11.0	27.5	0.8	C4HG2564-B0****
0.68	32.0	20.0	11.0	27.5	0.8	C4HG2684-B0****
0.82	32.0	22.0	13.0	27.5	0.8	C4HG2824-B0****
1.0	32.0	22.0	13.0	27.5	0.8	C4HG2105-B0****
1.2	32.0	25.0	13.0	27.5	0.8	C4HG2125-B0****
1.5	32.0	28.0	14.0	27.5	0.8	C4HG2155-B0****
1.8	32.0	30.0	16.0	27.5	0.8	C4HG2185-B0****
2.2	32.0	33.0	18.0	27.5	0.8	C4HG2225-B0****
2.7	32.0	34.0	20.0	27.5	0.8	C4HG2275-B0****
3.3	32.0	37.0	22.0	27.5	0.8	C4HG2335-B0****
3.9M	32.0	37.0	22.0	27.5	0.8	C4HG2395MB0****
1.0	41.0	22.0	11.0	37.5	1.0	C4HG2105-F0****
1.2	41.0	24.0	13.0	37.5	1.0	C4HG2125-F0****
1.5	41.0	24.0	13.0	37.5	1.0	C4HG2155-F0****
1.8	41.0	26.0	15.0	37.5	1.0	C4HG2185-F0****
2.2	41.0	30.0	16.0	37.5	1.0	C4HG2225-F0****
2.7	41.0	32.0	17.0	37.5	1.0	C4HG2275-F0****
3.3	41.0	33.5	18.5	37.5	1.0	C4HG2335-F0****
★ 3.9	41.0	34.0	20.0	37.5	1.0	C4HG2395-F0****
4.7	41.0	37.0	22.0	37.5	1.0	C4HG2475-F0****
★ 5.6	41.0	37.0	26.0	37.5	1.0	C4HG2565-F0****
6.8	41.0	43.0	28.0	37.5	1.0	C4HG2685-F0****
8.2	42.0	45.0	30.0	37.5	1.0	C4HG2825-F0****
10.0	42.0	50.0	35.0	37.5	1.0	C4HG2106-F0****
8.2	57.0	45.0	30.0	52.5	1.2	C4HG2825-M0T***
10.0	57.0	45.0	30.0	52.5	1.2	C4HG2106-M0T***

- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.

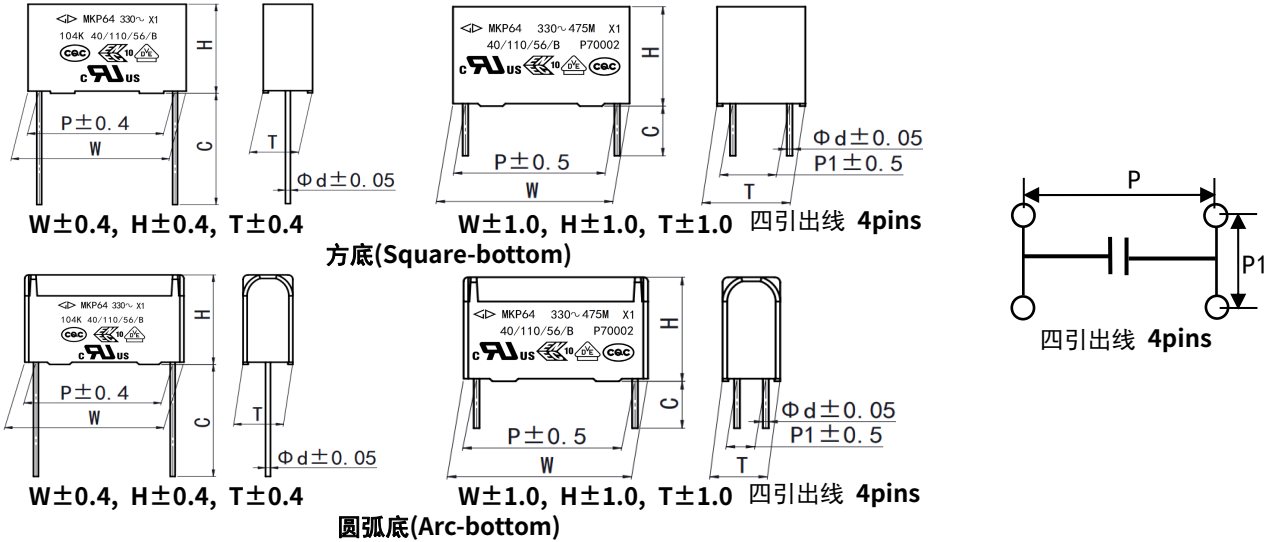


MKP64

Code:C44

金属化聚丙烯膜抗干扰电容器(X1类, 330Vac) Metallized polypropylene film Interference Suppression capacitor(Class X1, 330Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合 (不用于与电源串联的场合)

Features

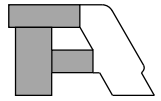
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit (Not for use in series with the mains)

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X1, 330Vac, 0.0010μF ~ 15.0μF, 40/110/56/B 证书号(Certificate No.): CQC06001016943
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X1, 330Vac, 0.0010μF ~ 15.0μF, 40/110/56/B 证书号(Certificate No.): 40021937
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X1, 330Vac, 0.0010μF ~ 15.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	330Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	760Vdc		
电容量范围 Capacitance Range	0.010μF ~ 15.0μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2.160Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000Ω, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	0.010μF ≤ C _N ≤ 0.47μF	≤ 15 × 10 ⁻⁴ (20°C, 1kHz)	≤ 30 × 10 ⁻⁴ (20°C, 10kHz)
	0.47μF < C _N ≤ 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
	1.0μF < C _N ≤ 15.0μF	≤ 30 × 10 ⁻⁴ (20°C, 1kHz)	-----
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 3. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

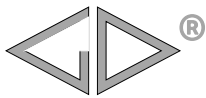
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	4												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C44=MKP64		C44=MKP64
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	R1=330V		R1=330V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm 9=22.5mm		4=10.0mm 6=15.0mm 9=22.5mm
	B=27.5mm F=37.5mm		B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	4 6	F=10.0mm F=15.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				
T 3	P1=20.3mm±0.5mm P1=20mm±0.5mm	45 55	引线长度 4.5mm lead length 4.5mm 引线长度 5.5mm lead length 5.5mm			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length



MKP64
Code:C44

■ 外形尺寸 Dimensions(mm)

330Vac							330Vac							330Vac							
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	
0.010	13.0	9.0	4.0	10.0	0.6	C44R1103-4S****	0.082	26.5	15.0	6.0	22.5	0.8	C44R1823-9S****	2.2M	32.0	28.0	17.0	27.5	0.8	C44R1225MBS****	
0.012	13.0	9.0	4.0	10.0	0.6	C44R1123-4S****	0.10	26.5	15.0	6.0	22.5	0.8	C44R1104-9S****	2.2	32.0	29.0	19.0	27.5	0.8	C44R1225-BA****	
0.015	13.0	9.0	4.0	10.0	0.6	C44R1153-4S****	0.12	26.5	15.0	6.0	22.5	0.8	C44R1124-9S****	★2.2	32.0	18.5	31.0	27.5	0.8	C44R1225-BC****	
0.018	13.0	11.0	5.0	10.0	0.6	C44R1183-4S****	0.15	26.5	15.0	6.0	22.5	0.8	C44R1154-9S****	2.2	32.0	33.0	18.0	27.5	0.8	C44R1225-BS****	
0.022	13.0	11.0	5.0	10.0	0.6	C44R1223-4S****	0.18	26.5	15.0	6.0	22.5	0.8	C44R1184-9S****	2.7	32.0	37.0	22.0	27.5	0.8	C44R1275-BS****	
0.027	13.0	11.0	5.0	10.0	0.6	C44R1273-4S****	0.22M	26.5	15.0	6.0	22.5	0.8	C44R1224M9S****	3.3	32.0	37.0	22.0	27.5	0.8	C44R1335-BS****	
0.033	13.0	11.0	5.0	10.0	0.6	C44R1333-4S****	0.22K	26.5	16.0	7.0	22.5	0.8	C44R1224K9S****	0.33	41.0	22.0	11.0	37.5	1.0	C44R1334-FS****	
0.039	13.0	12.0	6.0	10.0	0.6	C44R1393-4S****	0.27	26.5	16.0	7.0	22.5	0.8	C44R1274-9S****	0.39	41.0	22.0	11.0	37.5	1.0	C44R1394-FS****	
0.047	13.0	12.0	6.0	10.0	0.6	C44R1473-4S****	0.33	26.5	17.0	8.5	22.5	0.8	C44R1334-9S****	0.47	41.0	22.0	11.0	37.5	1.0	C44R1474-FS****	
0.056	13.0	13.0	7.0	10.0	0.6	C44R1563-4S****	0.39M	26.5	17.0	8.5	22.5	0.8	C44R1394M9S****	0.56	41.0	22.0	11.0	37.5	1.0	C44R1564-FS****	
0.068	13.0	14.0	8.0	10.0	0.6	C44R1683-4S****	0.39K	26.5	18.5	10.0	22.5	0.8	C44R1394K9S****	0.68	41.0	22.0	11.0	37.5	1.0	C44R1684-FS****	
0.010	17.5	9.5	5.0	15.0	0.6	C44R1103-6S****	0.47	26.5	18.5	10.0	22.5	0.8	C44R1474-9S****	0.82	41.0	22.0	11.0	37.5	1.0	C44R1824-FS****	
0.012	17.5	9.5	5.0	15.0	0.6	C44R1123-6S****	0.56	26.5	20.0	11.0	22.5	0.8	C44R1564-9S****	1.0	41.0	22.0	11.0	37.5	1.0	C44R1105-FS****	
0.015	17.5	9.5	5.0	15.0	0.6	C44R1153-6S****	0.68	26.5	22.0	12.0	22.5	0.8	C44R1684-9S****	1.0	42.0	15.0	24.0	37.5	1.0	C44R1105-FC****	
0.018	17.5	9.5	5.0	15.0	0.6	C44R1183-6S****	0.82M	26.5	22.0	12.0	22.5	0.8	C44R1824M9S****	1.2M	41.0	22.0	11.0	37.5	1.0	C44R1125MFS****	
0.022	17.5	9.5	5.0	15.0	0.6	C44R1223-6S****	0.82K	26.5	23.0	13.5	22.5	0.8	C44R1824K9S****	1.2K	41.0	24.0	13.0	37.5	1.0	C44R1125KFS****	
0.027	17.5	9.5	5.0	15.0	0.6	C44R1273-6S****	1.0	26.5	24.5	15.5	22.5	0.8	C44R1105-9S****	1.5	41.0	24.0	13.0	37.5	1.0	C44R1155-FS****	
0.033	17.5	9.5	5.0	15.0	0.6	C44R1333-6S****	1.2M	26.5	24.5	15.5	22.5	0.8	C44R1125M9S****	★1.5	41.0	26.0	12.0	37.5	1.0	C44R1155-FA****	
0.039	17.5	9.5	5.0	15.0	0.6	C44R1393-6S****	1.2	26.5	29.5	14.5	22.5	0.8	C44R1125-9A****	1.5	42.0	15.0	24.0	37.5	1.0	C44R1155-FC****	
0.047	17.5	11.0	5.0	15.0	0.6	C44R1473-6S****	0.15	32.0	18.0	9.0	27.5	0.8	C44R1154-BS****	1.8	41.0	26.0	15.0	37.5	1.0	C44R1185-FS****	
0.056	17.5	11.0	5.0	15.0	0.6	C44R1563-6S****	0.18	32.0	18.0	9.0	27.5	0.8	C44R1184-BS****	2.2M	41.0	26.0	15.0	37.5	1.0	C44R1225MFA****	
0.068	17.5	12.0	6.0	15.0	0.6	C44R1683-6S****	0.22	32.0	18.0	9.0	27.5	0.8	C44R1224-BS****	2.2M	42.0	28.0	14.0	37.5	1.0	C44R1225MFS****	
0.082	17.5	12.0	6.0	15.0	0.6	C44R1823-6S****	0.27	32.0	18.0	9.0	27.5	0.8	C44R1274-BS****	2.2K	41.0	30.0	16.0	37.5	1.0	C44R1225KFS****	
0.10	17.5	12.0	7.0	15.0	0.6	C44R1104-6S****	0.33	32.0	18.0	9.0	27.5	0.8	C44R1334-BS****	2.2	42.0	19.0	24.0	37.5	1.0	C44R1225-FC****	
0.10	17.5	17.5	6.0	15.0	0.6	C44R1104-6A****	0.39	32.0	18.0	9.0	27.5	0.8	C44R1394-BS****	2.7	41.0	32.0	17.0	37.5	1.0	C44R1275-FS****	
0.12	17.5	13.5	7.5	15.0	0.6	C44R1124-6S****	0.47	32.0	18.0	9.0	27.5	0.8	C44R1474-BS****	3.3M	41.0	20.0	26.0	37.5	1.0	C44R1335MFC****	
0.12	17.5	17.5	6.0	15.0	0.6	C44R1124-6A****	0.47	32.0	12.0	18.0	27.5	0.8	C44R1474-BC****	3.3	41.0	33.5	18.5	37.5	1.0	C44R1335-FS****	
0.12M	17.5	12.5	9.0	15.0	0.6	C44R1124M6B****	0.56M	32.0	18.0	9.0	27.5	0.8	C44R1564MBS****	3.9	41.0	37.0	22.0	37.5	1.0	C44R1395-FS****	
0.15M	17.5	13.5	7.5	15.0	0.6	C44R1154M6S****	0.56K	32.0	20.0	11.0	27.5	0.8	C44R1564KBS****	4.7M	42.0	24.0	32.0	37.5	1.0	C44R1475MFC****	
0.15K	17.5	14.0	8.0	15.0	0.6	C44R1154K6S****	0.68	32.0	20.0	11.0	27.5	0.8	C44R1684-BS****	4.7	41.0	37.0	22.0	37.5	1.0	C44R1475-FS****	
0.15K	17.5	18.5	7.5	15.0	0.8	C44R1154K6A****	★0.68	32.0	12.0	22.0	27.5	0.8	C44R1684-BC****	5.6	41.0	41.0	26.0	37.5	1.0	C44R1565-FS****	
0.15	17.5	12.0	13.0	15.0	0.8	C44R1154-6C****	0.82	32.0	20.0	11.0	27.5	0.8	C44R1824-BS****	6.8M	41.0	41.0	26.0	37.5	1.0	C44R1685MFS****	
0.18	17.5	14.5	8.5	15.0	0.6	C44R1184-6S****	★1.0M	32.0	12.0	22.0	27.5	0.8	C44R1105MBC****	6.8K	41.0	43.0	28.0	37.5	1.0	C44R1685KFS****	
0.18	17.5	18.5	7.5	15.0	0.8	C44R1184-6A****	1.0M	32.0	22.0	13.0	27.5	0.8	C44R1105MBS****	8.2	42.0	45.0	30.0	37.5	1.0	C44R1825-FS****	
0.22M	17.5	14.5	8.5	15.0	0.6	C44R1224M6A****	1.0K	32.0	25.0	13.0	27.5	0.8	C44R1105KBS****	8.2	57.0	45.0	30.0	52.5	1.2	C44R1825-MST****	
0.22	17.5	16.0	10.0	15.0	0.8	C44R1224-6S****	1.2	32.0	24.5	15.0	27.5	0.8	C44R1125-BS****	10.0	57.0	45.0	30.0	52.5	1.2	C44R1106-MST****	
0.27	17.5	19.0	11.0	15.0	0.8	C44R1274-6S****	1.2	32.0	28.0	14.0	27.5	0.8	C44R1125-BA****	12.0	57.0	45.0	30.0	52.5	1.2	C44R1126-MST****	
0.33	17.5	19.0	11.0	15.0	0.8	C44R1334-6S****	1.5	32.0	24.5	15.0	27.5	0.8	C44R1155-BS****	15.0	57.0	50.0	35.0	52.5	1.2	C44R1156-MST****	
0.039	26.5	15.0	6.0	22.5	0.8	C44R1393-9S****	1.5	32.0	28.0	14.0	27.5	0.8	C44R1155-BA****								
0.047	26.5	15.0	6.0	22.5	0.8	C44R1473-9S****	★1.5	32.0	16.0	27.5	27.5	0.8	C44R1155-BC****								
0.056	26.5	15.0	6.0	22.5	0.8	C44R1563-9S****	1.8	32.0	28.0	17.0	27.5	0.8	C44R1185-BS****								
0.068	26.5	15.0	6.0	22.5	0.8	C44R1683-9S****	1.8	32.0	30.0	16.0	27.5	0.8	C44R1185-BA****								

备注 Note: 1. “-”表示容量偏差。“”=capacitance tolerance code. M=±20%, K=±10%.

2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).

3. 不用于与电源串联的场合,与电源串联用请参见降压专用电容器 P153.

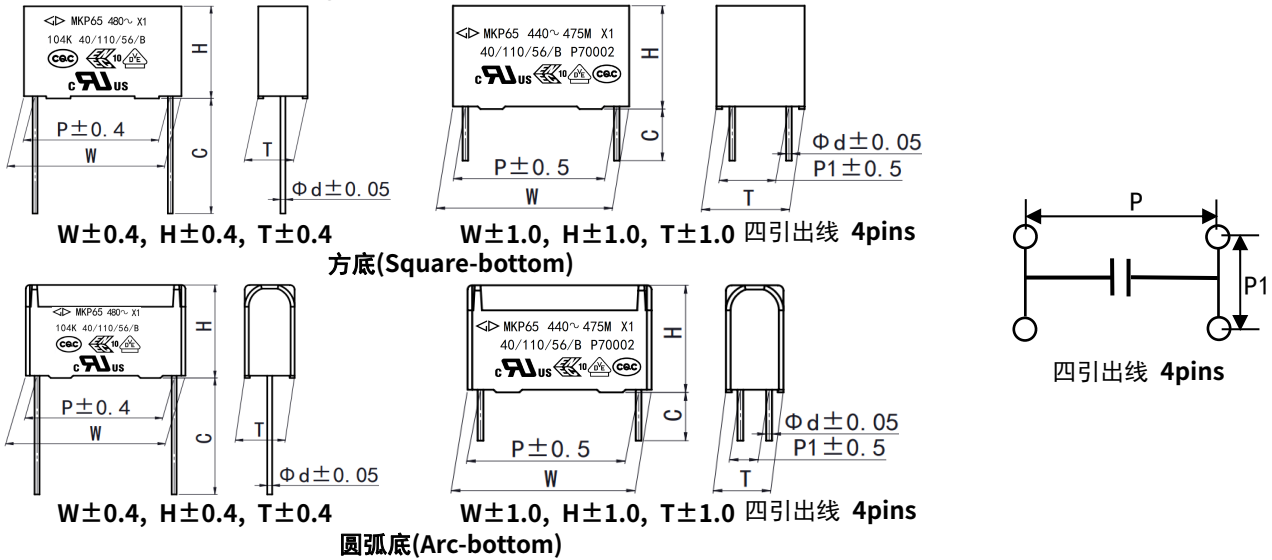
Not for use in series with the mains,the capacitors for series with the mains,please refer Page 153.

4. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.



金属化聚丙烯膜抗干扰电容器(X1类, 480Vac/440Vac) Metallized polypropylene film Interference Suppression capacitor(Class X2, 480Vac/440Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 体积小
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

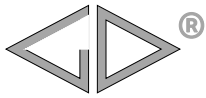
- Metallized polypropylene structure
- Compact size
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X1, 480Vac/440Vac, 0.0010μF ~ 10.0μF, 40/110/56/B 证书号(Certificate No.): CQC06001016942
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X1, 480Vac/440Vac, 0.0010μF ~ 10.0μF, 40/110/56/B 证书号(Certificate No.): 40021925
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X1, 480Vac/440Vac, 0.0010μF ~ 10.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability	40/110/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	480Vac/440Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	1 000Vdc		
电容量范围 Capacitance Range	0.0010μF ~ 10.0μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 560Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	0.0010μF ≤ C _N ≤ 0.010μF	≤ 25 × 10 ⁻⁴ (20°C, 1kHz)	≤ 25 × 10 ⁻⁴ (20°C, 10kHz)
	0.010μF < C _N ≤ 0.47μF	≤ 15 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	0.47μF < C _N ≤ 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
	1.0μF < C _N	≤ 30 × 10 ⁻⁴ (20°C, 1kHz)	-----
注: 1. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 2. 若用于户外或长期湿度较大场合, 建议选用防潮设计。		If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.	



MKP65
Code:C45

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	5												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C45=MKP65		C45=MKP65
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	S1=440V S3=480V		S1=440V S3=480V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm		3=7.5mm 4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm F=37.5mm		9=22.5mm B=27.5mm F=37.5mm
	M=52.5mm		M=52.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

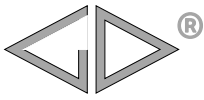
第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	4	F=10.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
		6	F=15.0mm				
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				
T	P1=20.3mm±0.5mm	45	引线长度 4.5mm lead length 4.5mm			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
3	P1=20mm±0.5mm	55	引线长度 5.5mm lead length 5.5mm				



■ 外形尺寸 Dimensions(mm)

440Vac/480Vac [#]							440Vac/480Vac [#]							440Vac/480Vac [#]						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0010	10.5	9.0	4.0	7.5	0.6	C45S1102-30****	0.056M	17.5	12.0	6.0	15.0	0.6	C45S1563M6S****	★1.0M	32.0	16.0	27.5	27.5	0.8	C45S1105MBC****
0.0012	10.5	9.0	4.0	7.5	0.6	C45S1122-30****	0.056K	17.5	12.0	7.0	15.0	0.6	C45S1563K6S****	★1.0K	32.0	18.5	31.0	27.5	0.8	C45S1105KBC****
0.0015	10.5	9.0	4.0	7.5	0.6	C45S1152-30****	0.068	17.5	13.5	7.5	15.0	0.6	C45S1683-6S****	1.0	32.0	28.0	17.0	27.5	0.8	C45S1105-BA****
0.0018	10.5	9.0	4.0	7.5	0.6	C45S1182-30****	0.068	17.5	12.0	13.0	15.0	0.8	C45S1683-6C****	1.0	32.0	30.0	16.0	27.5	0.8	C45S1105-BS****
0.0022	10.5	9.0	4.0	7.5	0.6	C45S1222-30****	0.082	17.5	14.0	8.0	15.0	0.6	C45S1823-6S****	1.2M	32.0	30.0	16.0	27.5	0.8	C45S1125MBS****
0.0027	10.5	9.0	4.0	7.5	0.6	C45S1272-30****	0.10M	17.5	14.0	8.0	15.0	0.6	C45S1104M6S****	1.2M	32.0	28.0	17.0	27.5	0.8	C45S1125MBA****
0.0033	10.5	9.0	4.0	7.5	0.6	C45S1332-30****	0.10K	17.5	14.5	8.5	15.0	0.6	C45S1104K6S****	1.2K	32.0	29.0	19.0	27.5	0.8	C45S1125KBA****
0.0039	10.5	9.0	4.0	7.5	0.6	C45S1392-30****	0.12	17.5	16.0	10.0	15.0	0.8	C45S1124-6S****	1.2K	32.0	33.0	18.0	27.5	0.8	C45S1125KBS****
0.0047	10.5	9.0	4.0	7.5	0.6	C45S1472-30****	0.15M	17.5	16.0	10.0	15.0	0.8	C45S1154M6S****	★1.5M	32.0	18.5	31.0	27.5	0.8	C45S1155MBC****
0.0056	10.5	9.0	4.0	7.5	0.6	C45S1562-30****	0.15K	17.5	19.0	11.0	15.0	0.8	C45S1154K6S****	1.5	32.0	33.0	18.0	27.5	0.8	C45S1155-BS****
0.0068	10.5	11.0	5.0	7.5	0.6	C45S1682-30****	0.18	17.5	19.0	11.0	15.0	0.8	C45S1184-6S****	1.8	32.0	37.0	22.0	27.5	0.8	C45S1185-BS****
0.0082	10.5	11.0	5.0	7.5	0.6	C45S1822-30****	0.039	26.5	15.0	6.0	22.5	0.8	C45S1393-90****	2.2M	32.0	37.0	22.0	27.5	0.8	C45S1225MBS****
0.010	10.5	11.0	5.0	7.5	0.6	C45S1103-30****	0.047	26.5	15.0	6.0	22.5	0.8	C45S1473-90****	0.33	41.0	22.0	11.0	37.5	1.0	C45S1334-F0****
0.012	10.5	12.0	6.0	7.5	0.6	C45S1123-30****	0.056	26.5	15.0	6.0	22.5	0.8	C45S1563-90****	0.39	41.0	22.0	11.0	37.5	1.0	C45S1394-F0****
0.015M	10.5	12.0	6.0	7.5	0.6	C45S1153M30****	0.068	26.5	15.0	6.0	22.5	0.8	C45S1683-90****	0.47	41.0	22.0	11.0	37.5	1.0	C45S1474-FS****
0.0010	13.0	9.0	4.0	10.0	0.6	C45S1102-40****	0.082	26.5	15.0	6.0	22.5	0.8	C45S1823-9S****	0.56	41.0	22.0	11.0	37.5	1.0	C45S1564-FS****
0.0012	13.0	9.0	4.0	10.0	0.6	C45S1122-40****	0.10	26.5	15.0	6.0	22.5	0.8	C45S1104-9S****	0.68	41.0	22.0	11.0	37.5	1.0	C45S1684-FS****
0.0015	13.0	9.0	4.0	10.0	0.6	C45S1152-40****	0.12	26.5	15.0	6.0	22.5	0.8	C45S1124-9S****	0.82M	41.0	22.0	11.0	37.5	1.0	C45S1824MFS****
0.0018	13.0	9.0	4.0	10.0	0.6	C45S1182-40****	0.15	26.5	16.0	7.0	22.5	0.8	C45S1154-9S****	0.82K	41.0	24.0	13.0	37.5	1.0	C45S1824KFS****
0.0022	13.0	9.0	4.0	10.0	0.6	C45S1222-40****	0.18	26.5	17.0	8.5	22.5	0.8	C45S1184-9S****	1.0	41.0	24.0	13.0	37.5	1.0	C45S1105-FS****
0.0027	13.0	9.0	4.0	10.0	0.6	C45S1272-40****	0.22	26.5	17.0	8.5	22.5	0.8	C45S1224-9S****	1.0	42.0	15.0	24.0	37.5	1.0	C45S1105-FC****
0.0033	13.0	9.0	4.0	10.0	0.6	C45S1332-40****	0.27	26.5	18.5	10.0	22.5	0.8	C45S1274-9S****	1.2	41.0	26.0	15.0	37.5	1.0	C45S1125-FA****
0.0039	13.0	9.0	4.0	10.0	0.6	C45S1392-40****	0.33	26.5	20.0	11.0	22.5	0.8	C45S1334-9S****	1.2	42.0	28.0	14.0	37.5	1.0	C45S1125-FS****
0.0047	13.0	9.0	4.0	10.0	0.6	C45S1472-4S****	0.39	26.5	20.0	11.0	22.5	0.8	C45S1394-9S****	1.5M	41.0	26.0	15.0	37.5	1.0	C45S1155MFA****
0.0056	13.0	9.0	4.0	10.0	0.6	C45S1562-4S****	0.47M	26.5	22.0	12.0	22.5	0.8	C45S1474M9S****	1.5M	42.0	28.0	14.0	37.5	1.0	C45S1155MFS****
0.0068	13.0	9.0	4.0	10.0	0.6	C45S1682-4S****	0.47K	26.5	23.0	13.5	22.5	0.8	C45S1474K9S****	1.5K	41.0	30.0	16.0	37.5	1.0	C45S1155KFS****
0.0082	13.0	9.0	4.0	10.0	0.6	C45S1822-4S****	0.56M	26.5	23.0	13.5	22.5	0.8	C45S1564M9S****	1.5	42.0	19.0	24.0	37.5	1.0	C45S1155-FC****
0.010	13.0	9.0	4.0	10.0	0.6	C45S1103-4S****	0.56K	26.5	24.5	15.5	22.5	0.8	C45S1564K9S****	1.8M	41.0	30.0	16.0	37.5	1.0	C45S1185MFS****
0.012	13.0	11.0	5.0	10.0	0.6	C45S1123-4S****	0.68M	26.5	24.5	15.5	22.5	0.8	C45S1684M9S****	1.8K	41.0	32.0	17.0	37.5	1.0	C45S1185KFS****
0.015	13.0	11.0	5.0	10.0	0.6	C45S1153-4S****	0.15	32.0	18.0	9.0	27.5	0.8	C45S1154-B0****	2.2M	41.0	32.0	17.0	37.5	1.0	C45S1225MFA****
0.018	13.0	11.0	5.0	10.0	0.6	C45S1183-4S****	0.18	32.0	18.0	9.0	27.5	0.8	C45S1184-B0****	2.2	41.0	33.5	18.5	37.5	1.0	C45S1225-FS****
0.022	13.0	11.0	5.0	10.0	0.6	C45S1223-4S****	0.22	32.0	18.0	9.0	27.5	0.8	C45S1224-B0****	2.7	41.0	37.0	22.0	37.5	1.0	C45S1275-FS****
0.027	13.0	12.0	6.0	10.0	0.6	C45S1273-4S****	0.27	32.0	18.0	9.0	27.5	0.8	C45S1274-BS****	3.3M	41.0	37.0	22.0	37.5	1.0	C45S1335MFS****
0.033	13.0	12.0	6.0	10.0	0.6	C45S1333-4S****	0.33	32.0	18.0	9.0	27.5	0.8	C45S1334-BS****	3.3K	41.0	41.0	26.0	37.5	1.0	C45S1335KFS****
0.039	13.0	13.0	7.0	10.0	0.6	C45S1393-4S****	0.33	32.0	12.0	18.0	27.5	0.8	C45S1334-BC****	3.3K	41.5	37.5	27.5	37.5	1.0	C45S1335KFA****
0.047M	13.0	13.0	7.0	10.0	0.6	C45S1473M4S****	0.39	32.0	20.0	11.0	27.5	0.8	C45S1394-BS****	3.9	41.0	41.0	26.0	37.5	1.0	C45S1395-FS****
0.047K	13.0	14.0	8.0	10.0	0.6	C45S1473K4S****	0.47	32.0	20.0	11.0	27.5	0.8	C45S1474-BS****	3.9	41.5	37.5	27.5	37.5	1.0	C45S1395-FA****
0.056	13.0	14.0	8.0	10.0	0.6	C45S1563-4S****	★0.47	32.0	12.0	22.0	27.5	0.8	C45S1474-BC****	4.7M	41.0	43.0	28.0	37.5	1.0	C45S1475MFS****
0.010	17.5	9.5	5.0	15.0	0.6	C45S1103-6S****	0.56	32.0	22.0	13.0	27.5	0.8	C45S1564-BS****	4.7K	42.0	45.0	30.0	37.5	1.0	C45S1475KFS****
0.012	17.5	9.5	5.0	15.0	0.6	C45S1123-6S****	0.68M	32.0	22.0	13.0	27.5	0.8	C45S1684MBS****	★4.7	57.0	38.0	24.0	52.5	1.2	C45S1475-MST**
0.015	17.5	9.5	5.0	15.0	0.6	C45S1153-6S****	0.68K	32.0	25.0	13.0	27.5	0.8	C45S1684KBA****	5.6	57.0	45.0	30.0	52.5	1.2	C45S1565-MST**
0.018	17.5	9.5	5.0	15.0	0.6	C45S1183-6S****	0.68K	32.0	24.5	15.0	27.5	0.8	C45S1684KBS****	6.8	57.0	45.0	30.0	52.5	1.2	C45S1685-MST**
0.022	17.5	9.5	5.0	15.0	0.6	C45S1223-6S****	★0.68	32.0	16.0	22.0	27.5	0.8	C45S1684-BC****	6.8	57.0	30.0	44.0	52.5	1.2	C45S1685-MCT**
0.027	17.5	11.0	5.0	15.0	0.6	C45S1273-6S****	0.82M	32.0	25.0	13.0	27.5	0.8	C45S1824MBS****	8.2	57.0	50.0	35.0	52.5	1.2	C45S1825-MST**
0.033	17.5	11.0	5.0	15.0	0.6	C45S1333-6S****	0.82K	32.0	24.5	15.0	27.5	0.8	C45S1824KBS****	10.0	57.0	50.0	35.0	52.5	1.2	C45S1106-MST**
0.039	17.5	12.0	6.0	15.0	0.6	C45S1393-6S****	0.82K	32.0	28.0	14.0	27.5	0.8	C45S1824KBA****							
0.047	17.5	12.0	6.0	15.0	0.6	C45S1473-6S****														

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%.
 2. “****”表示引线加工和包装代码(见表1)。 “****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 480Vac 时,第 4~5 位是 S3。 “#” when the rated voltage is 480Vac, the digit 4~5 is S3.
 4. “★”表示外壳为圆弧底。 “★”=Arc bottom of the outer shell.

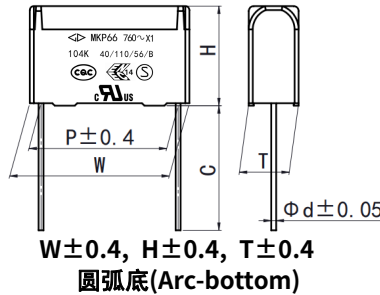
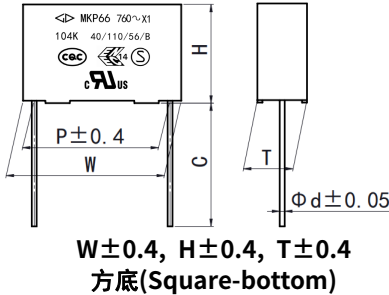


MKP66

Code:C46

金属化聚丙烯膜抗干扰电容器(X1类, 760Vac) Metallized polypropylene film Interference Suppression capacitor(Class X1, 760Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 体积小
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

Features

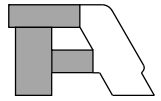
- Metallized polypropylene structure
- Compact size
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X1, 760Vac, 0.0010μF ~ 10.0μF, 40/110/56/B 证书号(Certificate No.): CQC08001026517
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, X1, 760Vac, 0.0010μF ~ 15.0μF, 40/110/56/B 证书号(Certificate No.): SE/0366-3C
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X1, 760Vac, 0.0010μF ~ 2.2μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	760Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	1 500Vdc		
电容量范围 Capacitance Range	0.0010μF ~ 2.2μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	3 020Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	0.0010μF ≤ C _N ≤ 0.47μF	≤ 15 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	0.47μF < C _N ≤ 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
	1.0μF < C _N	≤ 30 × 10 ⁻⁴ (20°C, 1kHz)	-----
注: 1. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 2. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

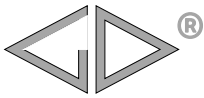
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	6												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C46=MKP66		C46=MKP66
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	V2=760V		V2=760V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	6=15.0mm 9=22.5mm		6=15.0mm 9=22.5mm
	B=27.5mm F=37.5mm		B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	6	F=15.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm ~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				

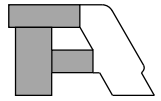


MKP66
Code:C46

■ 外形尺寸 Dimensions(mm)

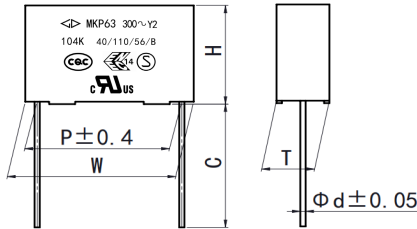
760Vac							760Vac						
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number
0.0010	17.5	9.5	5.0	15.0	0.6	C46V2102-6S****	0.068	32.0	18.0	9.0	27.5	0.8	C46V2683-B0****
0.0012	17.5	9.5	5.0	15.0	0.6	C46V2122-6S****	0.082	32.0	18.0	9.0	27.5	0.8	C46V2823-B0****
0.0015	17.5	9.5	5.0	15.0	0.6	C46V2152-6S****	0.10	32.0	18.0	9.0	27.5	0.8	C46V2104-BS****
0.0018	17.5	9.5	5.0	15.0	0.6	C46V2182-6S****	0.10	32.0	12.0	18.0	27.5	0.8	C46V2104-BC****
0.0022	17.5	9.5	5.0	15.0	0.6	C46V2222-6S****	0.12	32.0	18.0	9.0	27.5	0.8	C46V2124-BS****
0.0027	17.5	9.5	5.0	15.0	0.6	C46V2272-6S****	0.15M	32.0	12.0	18.0	27.5	0.8	C46V2154MBC****
0.0033	17.5	11.0	5.0	15.0	0.6	C46V2332-6S****	★ 0.15K	32.0	12.0	22.0	27.5	0.8	C46V2154KBC****
0.0047	17.5	11.0	5.0	15.0	0.6	C46V2472-6S****	0.15	32.0	20.0	11.0	27.5	0.8	C46V2154-BS****
0.0056	17.5	11.0	5.0	15.0	0.6	C46V2562-6S****	0.18	32.0	20.0	11.0	27.5	0.8	C46V2184-BS****
0.0068	17.5	11.0	5.0	15.0	0.6	C46V2682-6S****	0.22	32.0	22.0	13.0	27.5	0.8	C46V2224-BS****
0.0082	17.5	11.0	5.0	15.0	0.6	C46V2822-6S****	★ 0.22M	32.0	12.0	22.0	27.5	0.8	C46V2224MBC****
0.010	17.5	11.0	5.0	15.0	0.6	C46V2103-6S****	★ 0.22K	32.0	16.0	22.0	27.5	0.8	C46V2224KBC****
0.012	17.5	12.0	6.0	15.0	0.6	C46V2123-6S****	0.27	32.0	22.0	13.0	27.5	0.8	C46V2274-BS****
0.015	17.5	12.0	6.0	15.0	0.6	C46V2153-6S****	0.33	32.0	24.5	15.0	27.5	0.8	C46V2334-BS****
0.018	17.5	12.0	7.0	15.0	0.6	C46V2183-6S****	0.33	32.0	28.0	14.0	27.5	0.8	C46V2334-BA****
0.022	17.5	13.5	7.5	15.0	0.6	C46V2223-6S****	★ 0.33	32.0	16.0	27.5	27.5	0.8	C46V2334-BC****
0.027	17.5	14.0	8.0	15.0	0.6	C46V2273-6S****	0.39	32.0	28.0	17.0	27.5	0.8	C46V2394-BA****
0.033	17.5	14.5	8.5	15.0	0.6	C46V2333-6S****	0.39	32.0	30.0	16.0	27.5	0.8	C46V2394-BS****
0.039	17.5	16.0	10.0	15.0	0.8	C46V2393-6S****	0.47M	32.0	28.0	17.0	27.5	0.8	C46V2474MBA****
0.047M	17.5	16.0	10.0	15.0	0.8	C46V2473M6S****	0.47K	32.0	29.0	19.0	27.5	0.8	C46V2474KBA****
0.047K	17.5	19.0	11.0	15.0	0.8	C46V2473K6S****	0.47	32.0	30.0	16.0	27.5	0.8	C46V2474-BS****
0.056	17.5	19.0	11.0	15.0	0.8	C46V2563-6S****	★ 0.47	32.0	18.5	31.0	27.5	0.8	C46V2474-BC****
0.068M	17.5	19.0	11.0	15.0	0.8	C46V2683M6S****	0.56	32.0	33.0	18.0	27.5	0.8	C46V2564-BS****
0.010	26.5	15.0	6.0	22.5	0.8	C46V2103-90****	0.68	32.0	37.0	22.0	27.5	0.8	C46V2684-BS****
0.012	26.5	15.0	6.0	22.5	0.8	C46V2123-90****	★ 0.33	41.0	26.0	12.0	37.5	1.0	C46V2334-FS****
0.015	26.5	15.0	6.0	22.5	0.8	C46V2153-90****	0.33	41.0	24.0	13.0	37.5	1.0	C46V2334-FA****
0.018	26.5	15.0	6.0	22.5	0.8	C46V2183-90****	0.33	42.0	15.0	24.0	37.5	1.0	C46V2334-FC****
0.022	26.5	15.0	6.0	22.5	0.8	C46V2223-90****	★ 0.39	41.0	26.0	12.0	37.5	1.0	C46V2394-FS****
0.027	26.5	15.0	6.0	22.5	0.8	C46V2273-90****	0.39	41.0	24.0	13.0	37.5	1.0	C46V2394-FA****
0.033	26.5	15.0	6.0	22.5	0.8	C46V2333-9S****	0.47M	42.0	15.0	24.0	37.5	1.0	C46V2474MFC****
0.039	26.5	15.0	6.0	22.5	0.8	C46V2393-9S****	0.47	41.0	26.0	15.0	37.5	1.0	C46V2474-FS****
0.047	26.5	15.0	6.0	22.5	0.8	C46V2473-9S****	0.47	42.0	28.0	14.0	37.5	1.0	C46V2474-FA****
0.056	26.5	16.0	7.0	22.5	0.8	C46V2563-9S****	0.56	41.0	30.0	16.0	37.5	1.0	C46V2564-FS****
0.068	26.5	16.0	7.0	22.5	0.8	C46V2683-9S****	0.68M	42.0	19.0	24.0	37.5	1.0	C46V2684MFC****
0.082	26.5	17.0	8.5	22.5	0.8	C46V2823-9S****	0.68K	41.0	20.0	26.0	37.5	1.0	C46V2684KFC****
0.10M	26.5	17.0	8.5	22.5	0.8	C46V2104M9S****	0.68	41.0	30.0	16.0	37.5	1.0	C46V2684-FS****
0.10K	26.5	18.5	10.0	22.5	0.8	C46V2104K9A****	0.82	41.0	33.5	18.5	37.5	1.0	C46V2824-FS****
0.12	26.5	18.5	10.0	22.5	0.8	C46V2124-9S****	1.0M	41.0	33.5	18.5	37.5	1.0	C46V2105MFS****
0.15	26.5	20.0	11.0	22.5	0.8	C46V2154-9S****	1.0K	41.0	37.0	22.0	37.5	1.0	C46V2105KFS****
0.18	26.5	22.0	12.0	22.5	0.8	C46V2184-9S****	1.0	42.0	24.0	32.0	37.5	1.0	C46V2105-FC****
0.22M	26.5	22.0	12.0	22.5	0.8	C46V2224M9S****	1.2	41.0	37.0	22.0	37.5	1.0	C46V2125-FS****
0.22K	26.5	23.0	13.5	22.5	0.8	C46V2224K9S****	1.5	41.0	41.0	26.0	37.5	1.0	C46V2155-FS****
0.27	26.5	24.5	15.5	22.5	0.8	C46V2274-9S****	1.5	41.5	37.5	27.5	37.5	1.0	C46V2155-FA****
0.33M	26.5	29.5	14.5	22.5	0.8	C46V2334M9S****	1.8M	41.0	41.0	26.0	37.5	1.0	C46V2185MFS****
							1.8M	41.5	37.5	27.5	37.5	1.0	C46V2185MFA****
							1.8K	41.0	43.0	28.0	37.5	1.0	C46V2185KFS****
							2.2M	42.0	45.0	30.0	37.5	1.0	C46V2225MFS****

备注 Note: 1. “-”表示容量偏差。 “.”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.

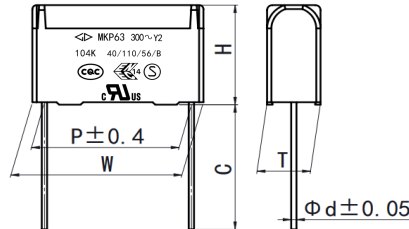


金属化聚丙烯膜抗干扰电容器(Y2类, 300Vac) Metallized polypropylene film Interference Suppression capacitor(Class Y2, 300Vac)

外形图 Outline Drawing



$W \pm 0.4, H \pm 0.4, T \pm 0.4$
方底(Square-bottom)



$W \pm 0.4, H \pm 0.4, T \pm 0.4$
圆弧底(Arc-bottom)

特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 广泛用于电源接地、旁路、天线耦合等抗干扰场合

Features

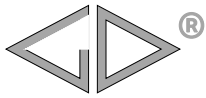
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Widely used in line to ground, line-by-pass, antenna coupling interference suppression circuit, etc

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013+AMD1:2016, Y2, 300Vac/1000Vdc, 0.0010μF ~ 1.0μF, 40/110/56/B 证书号(Certificate No.): CQC04001009958
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, Y2, 300Vac/1000Vdc, 0.0010μF ~ 1.0μF, 40/110/56/B 证书号(Certificate No.): SE/0366-2D
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, Y2, 300Vac/1000Vdc, 0.0010μF ~ 1.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8
●		KC (韩国)	K60384-14(2006-12), Y2, 300Vac, 0.0010μF~0.1μF, 40/110/56/B 证书号(Certificate No.): SU03060-12005

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C		
额定电压 Rated Voltage(U_R)	300Vac, 50Hz/60Hz		
额定直流电压 Rated DC voltage	1 000Vdc		
电容量范围 Capacitance Range	0.0010μF ~ 1.0μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	2 000Vac, 2s or	4 000Vdc, 2s $C_N \leq 0.33\mu F$ 3 700Vdc, 2s $C_N > 0.33\mu F$
	极壳之间 Between Terminals To Case:	2 500Vac, 1min	
绝缘电阻 Insulation Resistance	$R \geq 15\ 000M\Omega,$ $C_N \leq 0.33\mu F$ $RC_N \geq 5\ 000s,$ $C_N > 0.33\mu F$ (20°C, 100V, 1min)		
损耗角正切 Dissipation Factor($\tan\delta$)	$\leq 30 \times 10^{-4}$ (20°C, 1kHz)		$\leq 40 \times 10^{-4}$ (20°C, 10kHz)



MKP63

Code:C43

■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	3												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C43=MKP63		C43=MKP63
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q1=300V		Q1=300V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10³pF=0.01μF		for example: 103=10×10³pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm		3=7.5mm 4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm F=37.5mm		9=22.5mm B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15			
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation		
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)		
		4	F=10.0mm				5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)	
		6	F=15.0mm						
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length		
		00	标准的引线长度(18mm~26 mm) standard lead length						
		45	引线长度 4.5mm lead length 4.5mm						
D E M	软绝缘线(多股) Insulated stranded leads 硬绝缘线(单股) Insulated solid leads 软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	C5	35mm	1		1	引线长度偏差 -5mm~0mm Length tolerance -5 mm~0 mm		
		K0	100mm				2	引线长度偏差 0 mm~+5 mm Length tolerance 0 mm~+5 mm	
		K2	120mm					3	引线长度偏差 0 mm~+10mm Length tolerance 0 mm~+10mm
		L0	200mm						4
		注 1: 这里的长度包含剥线长度 Note 1: This length includes the stripping parts 注 2: 一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2: Normally, for P≥27.5mm Caps can choice Insulated leads							

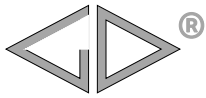


■ 外形尺寸 Dimensions(mm)
标准型 Standard type

300Vac						
C _N (μF)	W	H	T	P	d	Part number
0.0010	10.5	9.0	4.0	7.5	0.6	C43Q1102-30****
0.0012	10.5	9.0	4.0	7.5	0.6	C43Q1122-30****
0.0015	10.5	9.0	4.0	7.5	0.6	C43Q1152-30****
0.0018	10.5	9.0	4.0	7.5	0.6	C43Q1182-30****
0.0022	10.5	9.0	4.0	7.5	0.6	C43Q1222-30****
0.0027	10.5	9.0	4.0	7.5	0.6	C43Q1272-30****
0.0033	10.5	11.0	5.0	7.5	0.6	C43Q1332-30****
0.0039	10.5	11.0	5.0	7.5	0.6	C43Q1392-30****
0.0047	10.5	12.0	6.0	7.5	0.6	C43Q1472-30****
0.0056	10.5	12.0	6.0	7.5	0.6	C43Q1562-30****
0.0010	13.0	9.0	4.0	10.0	0.6	C43Q1102-40****
0.0012	13.0	9.0	4.0	10.0	0.6	C43Q1122-40****
0.0015	13.0	9.0	4.0	10.0	0.6	C43Q1152-40****
0.0018	13.0	9.0	4.0	10.0	0.6	C43Q1182-40****
0.0022	13.0	9.0	4.0	10.0	0.6	C43Q1222-40****
0.0027	13.0	9.0	4.0	10.0	0.6	C43Q1272-40****
0.0033	13.0	9.0	4.0	10.0	0.6	C43Q1332-40****
0.0039	13.0	9.0	4.0	10.0	0.6	C43Q1392-40****
0.0047	13.0	11.0	5.0	10.0	0.6	C43Q1472-40****
0.0056	13.0	11.0	5.0	10.0	0.6	C43Q1562-41****
0.0068	13.0	11.0	5.0	10.0	0.6	C43Q1682-41****
0.0068	13.0	7.5	9.5	10.0	0.6	C43Q1682-4C****
0.0082	13.0	12.0	6.0	10.0	0.6	C43Q1822-40****
0.010	13.0	12.0	6.0	10.0	0.6	C43Q1103-40****
0.015	13.0	12.0	6.0	10.0	0.6	C43Q1153-4S****
0.0022	17.5	9.5	5.0	15.0	0.6	C43Q1222-60****
0.0027	17.5	9.5	5.0	15.0	0.6	C43Q1272-61****
0.0033	17.5	9.5	5.0	15.0	0.6	C43Q1332-61****
0.0039	17.5	9.5	5.0	15.0	0.6	C43Q1392-61****
0.0047	17.5	9.5	5.0	15.0	0.6	C43Q1472-61****
0.0056	17.5	9.5	5.0	15.0	0.6	C43Q1562-61****
0.0068	17.5	9.5	5.0	15.0	0.6	C43Q1682-61****
0.0082	17.5	9.5	5.0	15.0	0.6	C43Q1822-61****
0.010	17.5	9.5	5.0	15.0	0.6	C43Q1103-6S****
0.012	17.5	11.0	5.0	15.0	0.6	C43Q1123-6S****
0.015	17.5	11.0	5.0	15.0	0.6	C43Q1153-6S****
0.018M	17.5	11.0	5.0	15.0	0.6	C43Q1183M6S****
0.018K	17.5	12.0	6.0	15.0	0.6	C43Q1183K6S****
0.022	17.5	12.0	6.0	15.0	0.6	C43Q1223-6S****
0.027M	17.5	12.0	6.0	15.0	0.6	C43Q1273M6S****
0.027K	17.5	12.0	7.0	15.0	0.6	C43Q1273K6S****
0.033	17.5	13.5	7.5	15.0	0.6	C43Q1333-6S****
0.033	17.5	12.5	9.0	15.0	0.6	C43Q1333-6A****
0.039	17.5	13.5	7.5	15.0	0.6	C43Q1393-6S****
0.039	17.5	12.5	9.0	15.0	0.6	C43Q1393-6A****
0.047	17.5	14.5	8.5	15.0	0.6	C43Q1473-6S****
0.047	17.5	12.0	13.0	15.0	0.8	C43Q1473-6C****
0.056	17.5	16.0	10.0	15.0	0.8	C43Q1563-6S****
0.068	17.5	16.0	10.0	15.0	0.8	C43Q1683-6S****
0.082	17.5	19.0	11.0	15.0	0.8	C43Q1823-6S****
0.033	26.5	15.0	6.0	22.5	0.8	C43Q1333-90****
0.039	26.5	15.0	6.0	22.5	0.8	C43Q1393-90****
0.047	26.5	15.0	6.0	22.5	0.8	C43Q1473-9S****
0.056	26.5	15.0	6.0	22.5	0.8	C43Q1563-9S****
0.068M	26.5	15.0	6.0	22.5	0.8	C43Q1683M9S****
0.068K	26.5	16.0	7.0	22.5	0.8	C43Q1683K9S****

300Vac						
C _N (μF)	W	H	T	P	d	Part number
0.082	26.5	16.0	7.0	22.5	0.8	C43Q1823-9S****
0.10	26.5	17.0	8.5	22.5	0.8	C43Q1104-9S****
0.12	26.5	17.0	8.5	22.5	0.8	C43Q1124-9S****
0.15	26.5	18.5	10.0	22.5	0.8	C43Q1154-9S****
0.18	26.5	20.0	11.0	22.5	0.8	C43Q1184-9S****
0.22	26.5	22.0	12.0	22.5	0.8	C43Q1224-9S****
0.27	26.5	23.0	13.5	22.5	0.8	C43Q1274-9S****
0.33M	26.5	24.5	15.5	22.5	0.8	C43Q1334M9S****
0.33	26.5	29.5	14.5	22.5	0.8	C43Q1334-9A****
0.10	32.0	18.0	9.0	27.5	0.8	C43Q1104-B0****
0.12	32.0	18.0	9.0	27.5	0.8	C43Q1124-B0****
0.15	32.0	18.0	9.0	27.5	0.8	C43Q1154-BS****
0.15	32.0	12.0	18.0	27.5	0.8	C43Q1154-BC****
0.18	32.0	20.0	11.0	27.5	0.8	C43Q1184-BS****
0.22	32.0	20.0	11.0	27.5	0.8	C43Q1224-BS****
0.22M	32.0	12.0	18.0	27.5	0.8	C43Q1224MBC****
★ 0.22K	32.0	12.0	22.0	27.5	0.8	C43Q1224KBC****
0.27M	32.0	20.0	11.0	27.5	0.8	C43Q1274MBS****
0.27K	32.0	22.0	13.0	27.5	0.8	C43Q1274KBS****
0.33M	32.0	22.0	13.0	27.5	0.8	C43Q1334MBS****
0.33K	32.0	25.0	13.0	27.5	0.8	C43Q1334KBS****
0.33K	32.0	24.5	15.0	27.5	0.8	C43Q1334KBA****
0.33M	32.0	15.0	21.0	27.5	0.8	C43Q1334MBC****
0.39	32.0	24.5	15.0	27.5	0.8	C43Q1394-BA****
0.39	32.0	28.0	14.0	27.5	0.8	C43Q1394-BS****
0.47M	32.0	24.5	15.0	27.5	0.8	C43Q1474MBA****
0.47M	32.0	28.0	14.0	27.5	0.8	C43Q1474MBS****
0.47K	32.0	30.0	16.0	27.5	0.8	C43Q1474KBS****
0.47K	32.0	28.0	17.0	27.5	0.8	C43Q1474KBA****
★ 0.47	32.0	16.0	27.5	27.5	0.8	C43Q1474-BC****
0.56	32.0	30.0	16.0	27.5	0.8	C43Q1564-BS****
0.56	32.0	28.0	17.0	27.5	0.8	C43Q1564-BA****
0.68M	32.0	29.0	19.0	27.5	0.8	C43Q1684MBA****
0.68K	32.0	30.0	21.0	27.5	0.8	C43Q1684KBA****
0.68	32.0	33.0	18.0	27.5	0.8	C43Q1684-BS****
★ 0.68	32.0	18.5	31.0	27.5	0.8	C43Q1684-BC****
★ 0.82M	32.0	18.5	31.0	27.5	0.8	C43Q1824MBC****
0.82M	32.0	33.0	18.0	27.5	0.8	C43Q1824MBS****
0.82K	32.0	37.0	22.0	27.5	0.8	C43Q1824KBS****
1.0	32.0	37.0	22.0	27.5	0.8	C43Q1105-BS****
0.33	41.0	22.0	11.0	37.5	1.0	C43Q1334-FS****
0.39M	41.0	22.0	11.0	37.5	1.0	C43Q1394MFS****
0.39K	41.0	24.0	13.0	37.5	1.0	C43Q1394KFS****
0.47	41.0	24.0	13.0	37.5	1.0	C43Q1474-FS****
0.47	42.0	15.0	24.0	37.5	1.0	C43Q1474-FC****
0.56	41.0	26.0	15.0	37.5	1.0	C43Q1564-FS****
0.56	42.0	28.0	14.0	37.5	1.0	C43Q1564-FA****
0.68M	41.0	26.0	15.0	37.5	1.0	C43Q1684MFA****
0.68M	42.0	28.0	14.0	37.5	1.0	C43Q1684MFS****
0.68K	41.0	30.0	16.0	37.5	1.0	C43Q1684KFS****
0.68	42.0	19.0	24.0	37.5	1.0	C43Q1684-FC****
0.82	41.0	30.0	16.0	37.5	1.0	C43Q1824-FS****
0.82M	42.0	19.0	24.0	37.5	1.0	C43Q1824MFC****
1.0M	41.0	32.0	17.0	37.5	1.0	C43Q1105MFS****
1.0K	41.0	33.5	18.5	37.5	1.0	C43Q1105KFS****

- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “★”表示外壳为圆弧底。“★”=Arc bottom of the outer shell.



MKP63

Code:C43

■ 外形尺寸 Dimensions(mm)

高性能型 High performance version

300Vac						
C _N (μF)	W	H	T	P	d	Part number
0.0068	17.5	11.0	5.0	15.0	0.8	C43Q1682-60****
0.0082	17.5	11.0	5.0	15.0	0.8	C43Q1822-60****
0.010	17.5	11.0	5.0	15.0	0.8	C43Q1103-60****
0.012	17.5	12.0	6.0	15.0	0.8	C43Q1123-60****
0.015	17.5	12.0	6.0	15.0	0.8	C43Q1153-60****
0.018	17.5	12.0	6.0	15.0	0.8	C43Q1183-60****
0.022	17.5	13.5	7.5	15.0	0.8	C43Q1223-60****
0.027M	17.5	13.5	7.5	15.0	0.8	C43Q1273M60****
0.027K	17.5	14.5	8.5	15.0	0.8	C43Q1273K60****
0.033	17.5	14.5	8.5	15.0	0.8	C43Q1333-60****
0.039M	17.5	14.5	8.5	15.0	0.8	C43Q1393M60****
0.039K	17.5	16.0	10.0	15.0	0.8	C43Q1393K60****
0.047	17.5	16.0	10.0	15.0	0.8	C43Q1473-60****
0.056	17.5	19.0	11.0	15.0	0.8	C43Q1563-60****
0.047	26.5	15.0	6.0	22.5	0.8	C43Q1473-90****
0.056	26.5	16.0	7.0	22.5	0.8	C43Q1563-90****
0.068	26.5	17.0	8.5	22.5	0.8	C43Q1683-90****
0.082	26.5	17.0	8.5	22.5	0.8	C43Q1823-90****
0.10	26.5	18.5	10.0	22.5	0.8	C43Q1104-90****
0.12	26.5	18.5	10.0	22.5	0.8	C43Q1124-90****
0.15	26.5	22.0	12.0	22.5	0.8	C43Q1154-90****
0.18	26.5	22.0	12.0	22.5	0.8	C43Q1184-90****
0.22	26.5	24.5	15.5	22.5	0.8	C43Q1224-90****

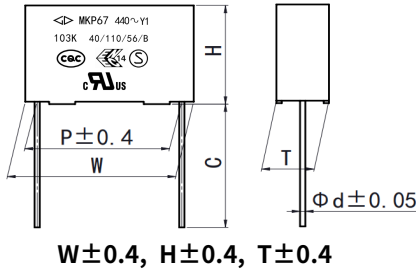
300Vac						
C _N (μF)	W	H	T	P	d	Part number
0.15	32.0	20.0	11.0	27.5	0.8	C43Q1154-B0****
0.18	32.0	20.0	11.0	27.5	0.8	C43Q1184-B0****
0.22	32.0	22.0	13.0	27.5	0.8	C43Q1224-B0****
0.27M	32.0	24.5	15.0	27.5	0.8	C43Q1274MB0****
0.27K	32.0	28.0	14.0	27.5	0.8	C43Q1274KB0****
0.33	32.0	28.0	14.0	27.5	0.8	C43Q1334-B0****
0.39	32.0	33.0	18.0	27.5	0.8	C43Q1394-B0****
0.47	32.0	33.0	18.0	27.5	0.8	C43Q1474-B0****
0.56	32.0	33.0	18.0	27.5	0.8	C43Q1564-B0****
0.68K	32.0	37.0	22.0	27.5	0.8	C43Q1684KB0****
0.33	41.0	24.0	13.0	37.5	1.0	C43Q1334-F0****
0.39	41.0	24.0	13.0	37.5	1.0	C43Q1394-F0****
0.47K	41.0	26.0	15.0	37.5	1.0	C43Q1474KF0****
0.56	41.0	30.0	16.0	37.5	1.0	C43Q1564-F0****
0.68	41.0	30.0	16.0	37.5	1.0	C43Q1684-F0****
0.82	41.0	33.5	18.5	37.5	1.0	C43Q1824-F0****
1.0	41.0	37.0	22.0	37.5	1.0	C43Q1105-F0****

备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%.
 2. “****” 表示引线加工和包装代码(见表 1)。“****” =lead form and packing code(refer to table 1).



金属化聚丙烯膜抗干扰电容器(Y1类, 440Vac/500Vac) Metallized polypropylene film Interference Suppression capacitor(Class Y1, 440Vac/500Vac)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 广泛用于电源接地、旁路、天线耦合等抗干扰场合

Features

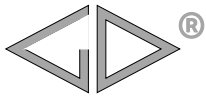
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Widely used in line to ground, line-by-pass, antenna coupling interference suppression circuit, etc

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013+AMD1:2016, Y1, 440Vac/500Vac/1 500Vdc, 0.00047μF ~ 0.022μF, 40/110/56/B 证书号(Certificate No.): CQC10001044432
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, Y1, 440Vac/500Vac/1 500Vdc, 0.00047μF ~ 0.022μF, 40/110/56/B 证书号(Certificate No.): SE/0366-4B
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, Y1, 440Vac/500Vac/1 500Vdc, 0.00047μF ~ 0.022μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B	
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C	
额定电压 Rated Voltage(U _R)	440Vac/500Vac, 50Hz/60Hz	
额定直流电压 Rated DC voltage	1 500Vdc	
电容量范围 Capacitance Range	0.000 47μF ~ 0.10μF	
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)	
耐电压 Voltage Proof	引线之间 Between Terminals:	4 000Vac, 2s
	极壳之间 Between Terminals To Case:	4 000Vac, 1min
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ (20°C, 100V, 1min)	
损耗角正切 Dissipation Factor(tanδ)	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)



MKP67
Code:C47

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

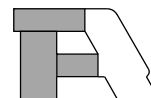
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	7												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C47=MKP67		C47=MKP67
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	S1=440V H2=500V		S1=440V H2=500V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	6=15.0mm 9=22.5mm B=27.5mm		6=15.0mm 9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

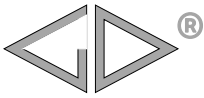
第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	6	F=15.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length	
		00	标准的引线长度(18mm ~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



■ 外形尺寸 Dimensions(mm)

440Vac						
C _N	W	H	T	P	d	Part number
470 pF	17.5	11.0	5.0	15.0	0.6	C47S1471-60****
560 pF	17.5	11.0	5.0	15.0	0.6	C47S1561-60****
680 pF	17.5	11.0	5.0	15.0	0.6	C47S1681-60****
820 pF	17.5	11.0	5.0	15.0	0.6	C47S1821-60****
0.0010 μF	17.5	11.0	5.0	15.0	0.6	C47S1102-60****
0.0012 μF	17.5	11.0	5.0	15.0	0.6	C47S1122-60****
0.0015 μF	17.5	11.0	5.0	15.0	0.6	C47S1152-60****
0.0018 μF	17.5	12.0	6.0	15.0	0.6	C47S1182-60****
0.0020 μF	17.5	12.0	6.0	15.0	0.6	C47S1202-60****
0.0022 μF	17.5	12.0	6.0	15.0	0.6	C47S1222-60****
0.0025 μF	17.5	12.0	6.0	15.0	0.6	C47S1252-60****
0.0027 μF	17.5	13.5	7.5	15.0	0.6	C47S1272-60****
0.0028 μF	17.5	13.5	7.5	15.0	0.6	C47S1282-60****
0.0033 μF	17.5	13.5	7.5	15.0	0.6	C47S1332-60****
0.0039 μF	17.5	13.5	7.5	15.0	0.6	C47S1392-60****
0.0040 μF	17.5	13.5	7.5	15.0	0.6	C47S1402-60****
0.0047 μF	17.5	14.0	8.0	15.0	0.6	C47S1472-60****
0.0050 μF	17.5	14.5	8.5	15.0	0.6	C47S1502-60****
0.0056 μF	17.5	14.5	8.5	15.0	0.6	C47S1562-60****
0.0068 μF	17.5	16.0	10.0	15.0	0.8	C47S1682-60****
0.0082 μF	17.5	19.0	11.0	15.0	0.8	C47S1822-60****
0.010 μF	17.5	19.0	11.0	15.0	0.8	C47S1103-60****
0.0056 μF	26.5	15.0	6.0	22.5	0.8	C47S1562-90****
0.0068 μF	26.5	16.0	7.0	22.5	0.8	C47S1682-90****
0.0082 μF	26.5	17.0	8.5	22.5	0.8	C47S1822-90****
0.010 μF	26.5	17.0	8.5	22.5	0.8	C47S1103-90****
0.012 μF	26.5	18.5	10.0	22.5	0.8	C47S1123-90****
0.015 μF	26.5	18.5	10.0	22.5	0.8	C47S1153-90****
0.018 μF	26.5	20.0	11.0	22.5	0.8	C47S1183-90****
0.022 μF	26.5	22.0	12.0	22.5	0.8	C47S1223-90****
▲0.022 μF	32.0	20.0	11.0	27.5	0.8	C47S1223-B0****
▲0.033 μF	32.0	22.0	13.0	27.5	0.8	C47S1333-B0****
▲0.047 μF	32.0	28.0	14.0	27.5	0.8	C47S1473-B0****
▲0.068 μF	32.0	33.0	18.0	27.5	0.8	C47S1683-B0****
▲0.10 μF	32.0	37.0	22.0	27.5	0.8	C47S1104-B0****

- 备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为 500Vac 时,第 4~5 位是 H2。“#” when the rated voltage is 500Vac, the digit 4~5 is H2.
 4. “▲”表示无认证。“▲” indicates no approval.

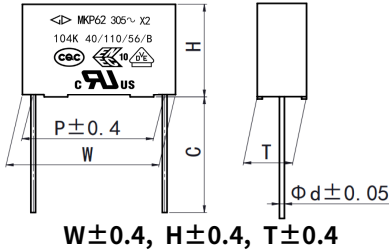


MKP62
Code:C42

金属化聚丙烯膜抗干扰电容器(X2类, 305Vac/275Vac, 小型化)

Metallized polypropylene film Interference Suppression capacitor(Class X2, 305Vac/275Vac, Miniature version)

外形图 Outline Drawing



特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合(室内)

Features

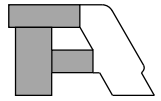
- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit (indoor applications)

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8
●		KC (韩国)	K 60384-14(2006-12), X2, 305Vac/275Vac, 0.0010μF ~ 3.0μF, 40/110/56/B 证书号(Certificate No.): SU03060-12001A/12002/12003/12004

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	305Vac/275Vac, 50Hz/60Hz		
最大额定电源电压 Max rated supply mains voltage	250Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	560Vdc		
电容量范围 Capacitance Range	0.033μF ~ 0.47μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF RC _N ≥ 5 000s, C _N > 0.33μF (20°C, 100V, 1min)		
损耗角正切 Dissipation Factor(tanδ)	0.033μF ≤ C _N < 0.47μF	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	C _N = 0.47μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系; 3. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

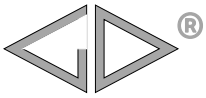
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	2												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C42= MKP62		C42= MKP62
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V P2=275V		Q2=305V P2=275V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm		3=7.5mm 4=10.0mm 6=15.0mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)
		4	F=10.0mm				
		6	F=15.0mm				
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



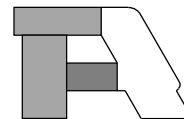
MKP62
Code:C42

■ 外形尺寸 Dimensions(mm)

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.033M	10.5	9.0	4.0	7.5	0.6	C42Q2333M3F****
0.033K	10.5	11.0	5.0	7.5	0.6	C42Q2333K3F****
0.039	10.5	11.0	5.0	7.5	0.6	C42Q2393-3F****
0.047	10.5	11.0	5.0	7.5	0.6	C42Q2473-3F****
0.056	10.5	11.0	5.0	7.5	0.6	C42Q2563-3F****
0.068	10.5	12.0	6.0	7.5	0.6	C42Q2683-3F****
0.082	10.5	12.0	6.0	7.5	0.6	C42Q2823-3F****
0.033	13.0	9.0	4.0	10.0	0.6	C42Q2333-4F****
0.039	13.0	9.0	4.0	10.0	0.6	C42Q2393-4F****
0.047	13.0	9.0	4.0	10.0	0.6	C42Q2473-4F****
0.056	13.0	9.0	4.0	10.0	0.6	C42Q2563-4F****
0.068	13.0	11.0	5.0	10.0	0.6	C42Q2683-4F****
0.082	13.0	11.0	5.0	10.0	0.6	C42Q2823-4F****
0.10M	13.0	10.0	5.0	10.0	0.6	C42Q2104M4G****
0.10	13.0	11.0	5.0	10.0	0.6	C42Q2104-4F****
0.12	13.0	12.0	6.0	10.0	0.6	C42Q2124-4F****
0.15M	13.0	12.0	6.0	10.0	0.6	C42Q2154M4F****
0.15K	13.0	13.0	7.0	10.0	0.6	C42Q2154K4F****
0.18	13.0	13.0	7.0	10.0	0.6	C42Q2184-4F****
0.22	13.0	14.0	8.0	10.0	0.6	C42Q2224-4F****

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.10	17.5	9.5	5.0	15.0	0.6	C42Q2104-6F****
0.12	17.5	9.5	5.0	15.0	0.6	C42Q2124-6F****
0.15	17.5	11.0	5.0	15.0	0.6	C42Q2154-6F****
0.18M	17.5	11.0	5.0	15.0	0.6	C42Q2184M6F****
0.18K	17.5	12.0	6.0	15.0	0.6	C42Q2184K6F****
0.22M	17.5	11.5	5.5	15.0	0.6	C42Q2224M6G****
0.22	17.5	12.0	6.0	15.0	0.6	C42Q2224-6F****
0.27	17.5	13.5	7.5	15.0	0.6	C42Q2274-6F****
0.33K	17.5	13.5	7.5	15.0	0.6	C42Q2334K6F****
0.33M	17.5	12.0	7.0	15.0	0.6	C42Q2334M6G****
0.33K	17.5	12.5	9.0	15.0	0.6	C42Q2334K6G****
0.33K	17.5	17.5	6.0	15.0	0.6	C42Q2334K6H****
0.39	17.5	13.5	7.5	15.0	0.6	C42Q2394-6F****
0.39	17.5	12.5	9.0	15.0	0.6	C42Q2394-6G****
0.39	17.5	17.5	6.0	15.0	0.6	C42Q2394-6H****
0.47M	17.5	14.0	8.0	15.0	0.6	C42Q2474M6F****
0.47K	17.5	14.5	8.5	15.0	0.6	C42Q2474K6F****
0.47M	17.5	12.5	9.0	15.0	0.6	C42Q2474M6G****
0.47M	17.5	17.5	6.0	15.0	0.6	C42Q2474M6H****
0.47K	17.5	18.5	7.5	15.0	0.8	C42Q2474K6H****

备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%。
 2. “****” 表示引线加工和包装代码(见表 1)。 “****” =lead form and packing code(refer to table 1).
 3. “#” 当额定电压为 275Vac 时, 第 4~5 位是 P2。 “#” when the rated voltage is 275Vac, the digit 4~5 is P2.
 4. 不用于与电源串联的场合, 与电源串联用请参见降压专用电容器 P153。
 Not for use in series with the mains, the capacitors for series with the mains, please refer Page 153.



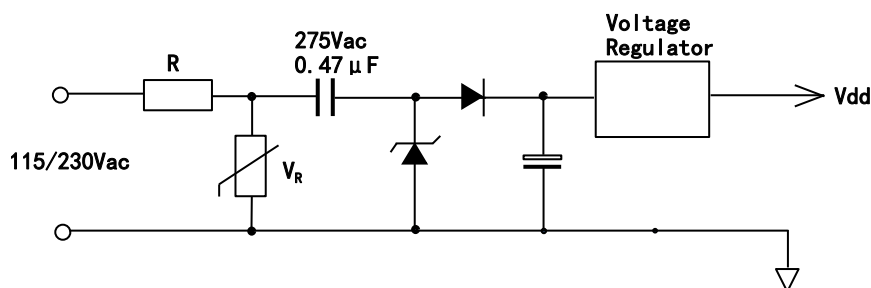
电容降压专用电容器 A.C. Capacitors for Capacitive Divider

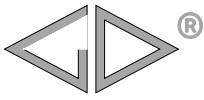
型号 Type	代码 Code	特征 Description	安全认证 Saty Approvals	规格 Rating	页码 page
MKT61	C26	金属化聚酯膜, 塑料外壳封装, X2 类 Metallized polyester film, box-type, Class X2	CQC ENEC-SEMKO UL/CUL	305Vac: 0.010 μ F ~2.2 μ F	154
C29	C29	金属化聚酯膜, 塑料外壳封装 Metallized polyester film, box-type	---	275Vac: 0.033 μ F ~10.0 μ F 300Vac: 0.022 μ F ~10.0 μ F	157
C32	C32(E)	金属化聚丙烯膜, 塑料外壳封装 Metallized polypropylene film, box-type	---	230Vac: 0.033 μ F ~4.7 μ F 250Vac: 0.010 μ F ~4.0 μ F 300Vac/275Vac: 0.10 μ F ~2.2 μ F	160
CBB62	C49	金属化聚丙烯, 环氧粉末封装 Metallized polypropylene film, Powder-coated	---	160Vac: 0.22 μ F ~2.2 μ F 230Vac: 0.033 μ F ~4.7 μ F 250Vac: 0.010 μ F ~4.0 μ F 300Vac: 0.10 μ F ~1.0 μ F	163
MKP62	C42(E)	金属化聚丙烯膜, 塑料外壳封装 Metallized, polypropylene film, box-type	CQC ENEC-VDE UL/CUL	305Vac: 0.010 μ F ~2.2 μ F	166
MKP62	C42(W)	金属化聚丙烯膜, 塑料外壳封装, THB 系列, Metallized, polypropylene film, box-type, THB series	CQC ENEC-VDE UL/CUL	305Vac/275Vac: 0.010 μ F ~15 μ F	169
MKP62	C42(Z)	金属化聚丙烯膜, 塑料外壳封装, THB 系列, 小型化 Metallized, polypropylene film, box-type, THB series, Miniature version	CQC ENEC-VDE UL/CUL	305Vac: 0.015 μ F ~8.2 μ F	172
MKP65	C45	金属化聚丙烯, 塑壳封装, X1 类 Metallized polypropylene film, Box-Type, Class X1	CQC ENEC-VDE UL/CUL	440Vac/480Vac: 0.0010 μ F ~10.0 μ F	137

注：长寿命要求和连续使用请选用 275Vac 以上电压。

Note: For long life time and continuous working, please choose 275Vac and upwards voltage.

■ 典型应用电路 Typical circuit (0.47 μ F)



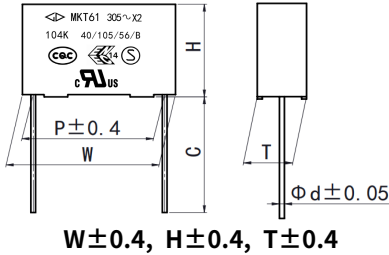


MKT61
Code:C26

金属化聚酯膜抗干扰电容器(X2类, 305Vac/275Vac, 小型化)

Metallized polypropylene film Interference Suppression capacitor(Class X2, 305Vac/275Vac, Miniature version)

外形图 Outline Drawing



特点

- 金属化聚酯膜内串式结构
- 在严苛的环境下(如高湿高温)长期应用容量稳定性优异
- 优异的阻燃性能
- 广泛用于电源串联连接和阻容降压场合例如: 电表, LED 供电模块等。

Features

- Metallized polyester with series construction
- High stability of capacitance under severe ambient condition, such as high humidity and high temperature
- Excellent active and passive flame resistant abilities
- For connection in series with the mains and capacitive divider power supply, such as energy meter, LED driver etc.

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac, 0.010μF ~ 2.2μF, 40/105/56/B 证书号(Certificate No.): CQC03001002873
●		ENEC-SEMKO (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac, 0.010μF ~ 2.2μF, 40/105/56/B 证书号(Certificate No.): SE/0366-5C
●		UL/CUL (美国/加拿大)	UL 60384-14:2014, CSA E60384-14:09, X2, 305Vac, 0.010μF ~ 2.2μF, 40/105/56/B 证书号(File No.): E186600, CCN: FOWX2/8

技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/105/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +105°C		
额定电压 Rated Voltage(U _R)	305Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	560Vdc		
电容量范围 Capacitance Range	0.010μF ~ 2.2μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF RC _N ≥ 5 000s, C _N > 0.33μF (20°C, 100V, 1min)		
损耗角正切 Dissipation Factor(tanδ)	0.010μF ≤ C _N ≤ 1.0μF	≤ 80 × 10 ⁻⁴ (1kHz, 20°C)	≤ 150 × 10 ⁻⁴ (1kHz, 20°C)
	1.0μF < C _N	≤ 80 × 10 ⁻⁴ (1kHz, 20°C)	-----
耐湿负荷测试 THB test (Damp heat test with loading)	Temperature: 85°C ± 2°C; Humidity: 85%RH ± 2%RH Voltage: 240Vac, 50Hz; Duration: 1 000h		
	Capacitance change (ΔC/C): ≤ 10% Dissipation factor change (Δtanδ): ≤ 0.5% (1kHz) Insulation resistance: ≥ 50% of the rated value		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

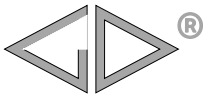
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	6												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C26= MKT61		C26= MKT61
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V P2=275V		Q2=305V P2=275V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm 9=22.5mm		4=10.0mm 6=15.0mm 9=22.5mm
	B=27.5mm F=37.5mm		B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm)
		4	F=10.0mm			5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detaill parameter refer to page 16)
		6	F=15.0mm				
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation			0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				
D E M	软绝缘线(多股) Insulated stranded leads 硬绝缘线(单股) Insulated solid leads 软绝缘线(多股), 外壳带正底安装耳 Insulated stranded leads Box with mounting foot	C5	35mm			1	引线长度偏差 -5mm~0mm Length tolerance -5 mm~0 mm
		K0	100mm			2	引线长度偏差 0 mm~+5 mm Length tolerance 0 mm~+5 mm
		K2	120mm			3	引线长度偏差 0 mm~+10mm Length tolerance 0 mm~+10mm
		L0	200mm 注 1: 这里的长度包含剥线长度 Note 1:This length includes the stripping parts 注 2:一般 P≥27.5mm 产品才可选用绝缘线方式 Note 2:Normally, for P≥27.5mm Caps can choice Insulated leads			4	引线长度偏差±5 mm Length tolerance±5 mm



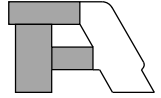
MKT61
Code:C26

■ 外形尺寸 Dimensions(mm)

305Vac						
C _N (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C26Q2103-40****
0.012	13.0	9.0	4.0	10.0	0.6	C26Q2123-40****
0.015	13.0	9.0	4.0	10.0	0.6	C26Q2153-40****
0.018	13.0	11.0	5.0	10.0	0.6	C26Q2183-40****
0.022	13.0	11.0	5.0	10.0	0.6	C26Q2223-40****
0.027	13.0	11.0	5.0	10.0	0.6	C26Q2273-40****
0.033	13.0	12.0	6.0	10.0	0.6	C26Q2333-40****
0.039	13.0	12.0	6.0	10.0	0.6	C26Q2393-40****
0.047	13.0	12.0	6.0	10.0	0.6	C26Q2473-40****
0.056	13.0	13.0	7.0	10.0	0.6	C26Q2563-40****
0.068	13.0	14.0	8.0	10.0	0.6	C26Q2683-40****
0.010	17.5	9.5	5.0	15.0	0.6	C26Q2103-60****
0.012	17.5	9.5	5.0	15.0	0.6	C26Q2123-60****
0.015	17.5	9.5	5.0	15.0	0.6	C26Q2153-60****
0.018	17.5	9.5	5.0	15.0	0.6	C26Q2183-60****
0.022	17.5	9.5	5.0	15.0	0.6	C26Q2223-60****
0.027	17.5	9.5	5.0	15.0	0.6	C26Q2273-60****
0.033	17.5	9.5	5.0	15.0	0.6	C26Q2333-60****
0.039	17.5	11.0	5.0	15.0	0.6	C26Q2393-60****
0.047	17.5	11.0	5.0	15.0	0.6	C26Q2473-60****
0.056	17.5	11.0	5.0	15.0	0.6	C26Q2563-60****
0.068	17.5	12.0	6.0	15.0	0.6	C26Q2683-60****
0.082	17.5	12.0	6.0	15.0	0.6	C26Q2823-60****
0.10	17.5	12.0	6.0	15.0	0.6	C26Q2104-6S****
0.12	17.5	12.0	6.0	15.0	0.6	C26Q2124-6S****
0.15	17.5	13.5	7.5	15.0	0.6	C26Q2154-6S****
0.18	17.5	13.5	7.5	15.0	0.6	C26Q2184-6S****
0.22	17.5	14.5	8.5	15.0	0.6	C26Q2224-6S****
0.27	17.5	16.0	10.0	15.0	0.8	C26Q2274-6S****
0.33	17.5	16.0	10.0	15.0	0.8	C26Q2334-6S****
0.39M	17.5	16.0	10.0	15.0	0.8	C26Q2394M6S****
0.39K	17.5	19.0	11.0	15.0	0.8	C26Q2394K6S****
0.47M	17.5	19.0	11.0	15.0	0.8	C26Q2474M6S****

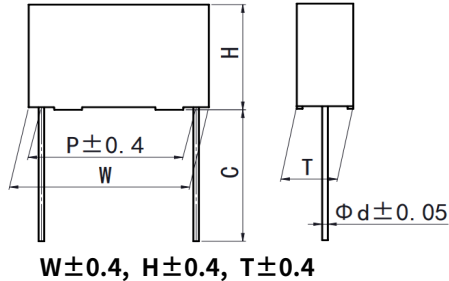
305Vac						
C _N (μF)	W	H	T	P	d	Part number
0.10	26.5	15.0	6.0	22.5	0.8	C26Q2104-90****
0.12	26.5	15.0	6.0	22.5	0.8	C26Q2124-90****
0.15	26.5	15.0	6.0	22.5	0.8	C26Q2154-9S****
0.18	26.5	15.0	6.0	22.5	0.8	C26Q2184-9S****
0.22	26.5	15.0	6.0	22.5	0.8	C26Q2224-9S****
0.27	26.5	16.0	7.0	22.5	0.8	C26Q2274-9S****
0.33	26.5	16.0	7.0	22.5	0.8	C26Q2334-9S****
0.39	26.5	17.0	8.5	22.5	0.8	C26Q2394-9S****
0.47	26.5	17.0	8.5	22.5	0.8	C26Q2474-9S****
0.56	26.5	18.5	10.0	22.5	0.8	C26Q2564-9S****
0.68	26.5	18.5	10.0	22.5	0.8	C26Q2684-9S****
0.82	26.5	20.0	11.0	22.5	0.8	C26Q2824-9S****
1.0	26.5	22.0	12.0	22.5	0.8	C26Q2105-9S****
1.2	26.5	23.0	13.5	22.5	0.8	C26Q2125-9S****
1.5	26.5	24.5	15.5	22.5	0.8	C26Q2155-9S****
1.5	26.5	29.5	14.5	22.5	0.8	C26Q2155-9A****
0.39	32.0	18.0	9.0	27.5	0.8	C26Q2394-B0****
0.47	32.0	18.0	9.0	27.5	0.8	C26Q2474-B0****
0.56	32.0	18.0	9.0	27.5	0.8	C26Q2564-BS****
0.68	32.0	18.0	9.0	27.5	0.8	C26Q2684-BS****
0.82	32.0	20.0	11.0	27.5	0.8	C26Q2824-BS****
1.0	32.0	20.0	11.0	27.5	0.8	C26Q2105-BS****
1.2	32.0	22.0	13.0	27.5	0.8	C26Q2125-BS****
1.5M	32.0	22.0	13.0	27.5	0.8	C26Q2155MBS****
1.5K	32.0	25.0	13.0	27.5	0.8	C26Q2155KBS****
1.8	32.0	28.0	14.0	27.5	0.8	C26Q2185-BS****
2.2	32.0	28.0	14.0	27.5	0.8	C26Q2225-BS****
2.2M	32.0	24.5	15.0	27.5	0.8	C26Q2225MBA****
1.0	41.0	22.0	11.0	37.5	1.0	C26Q2105-FS****
1.2	41.0	22.0	11.0	37.5	1.0	C26Q2125-FS****
1.5	41.0	24.0	13.0	37.5	1.0	C26Q2155-FS****
1.8	41.0	24.0	13.0	37.5	1.0	C26Q2185-FS****
2.2	42.0	28.0	14.0	37.5	1.0	C26Q2225-FS****
2.2	41.0	26.0	15.0	37.5	1.0	C26Q2225-FA****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%。
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



电容降压专用金属化聚酯膜交流电容器 Metallized polyester film A.C.capacitor for capacitive divider

外形图 Outline Drawing



特点

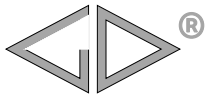
- 专门设计用于与电源串联的电容降压电路场合，如 LED 模块等。
- 金属化聚酯膜内串式结构
- 自愈性能优异，能承受过电压冲击
- 长期负载下优异的电容量稳定性
- 优异的防潮性能
- 优异的阻燃性能

Features

- This is specifically designed for applications in serial with the main, i.e.: capacitive divider, for example, LED driver etc.
- Metallized polyester with series construction
- Good self-healing properties, withstanding overvoltage stressing
- Long stability of capacitance
- Good properties in damp environment
- Excellent active and passive flame resistant abilities

技术要求 Specifications

引用标准 Reference Standard		GB/T 6346.14 (IEC 60384-14)	
气候类别/阻燃等级 Climatic Category/Passive Flammability Category		40/105/56/B	
额定温度 Rated temperature		85°C	
工作温度范围 Operating Temperature Range		-55°C ~ +105°C(+85°C to +105°C: decreasing factor 1.25% per °C for U_R)	
额定电压 Rated Voltage (U_R)		275Vac, 50Hz/60Hz	300Vac, 50Hz/60Hz
最大连续直流电压 Maximum continuous DC voltage		450Vdc	560Vdc
电容量范围 Capacitance Range		0.033 μ F ~ 10.0 μ F	0.022 μ F ~ 10.0 μ F
耐电压 Voltage Proof	引线之间 Between Terminals	860Vdc, 2s	1 180Vdc, 2s
	极壳之间 Between Terminals To Case	2 050Vac, 1min	2 100Vac, 1min
电容量偏差 Capacitance Tolerance		$\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M)	
绝缘电阻 Insulation Resistance		$R \geq 30\ 000M\Omega$, $C_N \leq 0.33\mu F$ $RC_N \geq 10\ 000s$, $C_N > 0.33\mu F$ (20°C, 100V, 1min)	
损耗角正切 Dissipation Factor($\tan\delta$)	$0.022\mu F < C_N \leq 0.10\mu F$	$\leq 75 \times 10^{-4}$ (20°C, 1kHz)	$\leq 110 \times 10^{-4}$ (20°C, 10kHz)
	$0.10\mu F < C_N \leq 0.47\mu F$	$\leq 75 \times 10^{-4}$ (20°C, 1kHz)	$\leq 120 \times 10^{-4}$ (20°C, 10kHz)
	$0.47\mu F < C_N \leq 10.0\mu F$	$\leq 75 \times 10^{-4}$ (20°C, 1kHz)	$\leq 150 \times 10^{-4}$ (20°C, 10kHz)



C29

■ 产品编码说明 Part number system

■ 15 位产品代码如下:

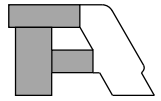
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	2	9												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C29		C29
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	P2=275V Q1=300V		P2=275V Q1=300V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm 9=22.5mm		4=10.0mm 6=15.0mm 9=22.5mm
	B=27.5mm F=37.5mm		B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	6	F=15.0mm	0	表示直脚 straight	5	P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length	
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



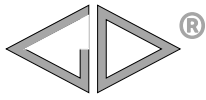
■ 外形尺寸 Dimensions(mm)

275Vac						
C _N (μF)	W	H	T	P	d	Part number
0.033	13.0	9.0	4.0	10.0	0.6	C29P2333-40****
0.039	13.0	9.0	4.0	10.0	0.6	C29P2393-40****
0.047	13.0	11.0	5.0	10.0	0.6	C29P2473-40****
0.056	13.0	11.0	5.0	10.0	0.6	C29P2563-40****
0.068	13.0	11.0	5.0	10.0	0.6	C29P2683-40****
0.082	13.0	12.0	6.0	10.0	0.6	C29P2823-40****
0.10	13.0	12.0	6.0	10.0	0.6	C29P2104-40****
0.10	17.5	11.0	5.0	15.0	0.6	C29P2104-60****
0.12	17.5	11.0	5.0	15.0	0.6	C29P2124-60****
0.15M	17.5	11.0	5.0	15.0	0.6	C29P2154M60****
0.15	17.5	12.0	6.0	15.0	0.6	C29P2154-60****
0.18	17.5	12.0	6.0	15.0	0.6	C29P2184-60****
0.22	17.5	13.5	7.5	15.0	0.6	C29P2224-60****
0.27	17.5	13.5	7.5	15.0	0.6	C29P2274-60****
0.33	17.5	14.5	8.5	15.0	0.6	C29P2334-60****
0.39M	17.5	14.5	8.5	15.0	0.6	C29P2394M60****
0.39	17.5	16.0	10.0	15.0	0.8	C29P2394-60****
0.47	17.5	16.0	10.0	15.0	0.8	C29P2474-60****
0.27	26.5	15.0	6.0	22.5	0.8	C29P2274-90****
0.33	26.5	15.0	6.0	22.5	0.8	C29P2334-90****
0.39	26.5	15.0	6.0	22.5	0.8	C29P2394-90****
0.47M	26.5	15.0	6.0	22.5	0.8	C29P2474M90****
0.47	26.5	16.0	7.0	22.5	0.8	C29P2474-90****
0.56	26.5	16.0	7.0	22.5	0.8	C29P2564-90****
0.68	26.5	17.0	8.5	22.5	0.8	C29P2684-90****
0.82	26.5	18.5	10.0	22.5	0.8	C29P2824-90****
1.0	26.5	18.5	10.0	22.5	0.8	C29P2105-90****
1.2	26.5	22.0	12.0	22.5	0.8	C29P2125-90****
1.5M	26.5	22.0	12.0	22.5	0.8	C29P2155M90****
1.5	26.5	23.0	13.5	22.5	0.8	C29P2155-90****
1.8	26.5	23.0	13.5	22.5	0.8	C29P2185-90****
2.2	26.5	24.5	15.5	22.5	0.8	C29P2225-90****
0.82	32.0	18.0	9.0	27.5	0.8	C29P2824-B0****
1.0	32.0	18.0	9.0	27.5	0.8	C29P2105-B0****
1.2	32.0	20.0	11.0	27.5	0.8	C29P2125-B0****
1.5	32.0	20.0	11.0	27.5	0.8	C29P2155-B0****
1.8	32.0	22.0	13.0	27.5	0.8	C29P2185-B0****
2.2M	32.0	22.0	13.0	27.5	0.8	C29P2225MB0****
2.2	32.0	25.0	13.0	27.5	0.8	C29P2225-B0****
3.3	32.0	30.0	16.0	27.5	0.8	C29P2335-B0****
3.9	32.0	33.0	18.0	27.5	0.8	C29P2395-B0****
4.7	32.0	33.0	18.0	27.5	0.8	C29P2475-B0****
2.2	41.0	22.0	11.0	37.5	1.0	C29P2225-F0****
2.7	41.0	24.0	13.0	37.5	1.0	C29P2275-F0****
3.3	42.0	28.0	14.0	37.5	1.0	C29P2335-F0****
3.9	42.0	28.0	14.0	37.5	1.0	C29P2395-F0****
4.7	41.0	30.0	16.0	37.5	1.0	C29P2475-F0****
5.6	41.0	32.0	17.0	37.5	1.0	C29P2565-F0****
6.8	41.0	33.5	18.5	37.5	1.0	C29P2685-F0****
8.2	41.0	37.0	22.0	37.5	1.0	C29P2825-F0****
10.0	41.0	41.0	26.0	37.5	1.0	C29P2106-F0****

300Vac						
C _N (μF)	W	H	T	P	d	Part number
0.022	13.0	9.0	4.0	10.0	0.6	C29Q1223-40****
0.027	13.0	11.0	5.0	10.0	0.6	C29Q1273-40****
0.033	13.0	11.0	5.0	10.0	0.6	C29Q1333-40****
0.039	13.0	11.0	5.0	10.0	0.6	C29Q1393-40****
0.047	13.0	11.0	5.0	10.0	0.6	C29Q1473-40****
0.056	13.0	12.0	6.0	10.0	0.6	C29Q1563-40****
0.068	13.0	12.0	6.0	10.0	0.6	C29Q1683-40****
0.068	17.5	11.0	5.0	15.0	0.6	C29Q1683-60****
0.082	17.5	11.0	5.0	15.0	0.6	C29Q1823-60****
0.10	17.5	12.0	6.0	15.0	0.6	C29Q1104-60****
0.15	17.5	13.5	7.5	15.0	0.6	C29Q1154-60****
0.22	17.5	14.0	8.0	15.0	0.6	C29Q1224-60****
0.27	17.5	14.5	8.5	15.0	0.6	C29Q1274-60****
0.33	17.5	16.0	10.0	15.0	0.8	C29Q1334-60****
0.39	17.5	16.0	10.0	15.0	0.8	C29Q1394-60****
0.47M	17.5	16.0	10.0	15.0	0.8	C29Q1474M60****
0.47	17.5	19.0	11.0	15.0	0.8	C29Q1474-60****
0.15	26.5	15.0	6.0	22.5	0.8	C29Q1154-90****
0.18	26.5	15.0	6.0	22.5	0.8	C29Q1184-90****
0.22	26.5	15.0	6.0	22.5	0.8	C29Q1224-90****
0.33	26.5	16.0	7.0	22.5	0.8	C29Q1334-90****
0.39	26.5	16.0	7.0	22.5	0.8	C29Q1394-90****
0.47	26.5	17.0	8.5	22.5	0.8	C29Q1474-90****
0.56	26.5	17.0	8.5	22.5	0.8	C29Q1564-90****
0.68	26.5	18.5	10.0	22.5	0.8	C29Q1684-90****
0.82	26.5	18.5	10.0	22.5	0.8	C29Q1824-90****
1.0	26.5	20.0	11.0	22.5	0.8	C29Q1105-90****
1.5	26.5	23.0	13.5	22.5	0.8	C29Q1155-90****
1.8	26.5	24.5	15.5	22.5	0.8	C29Q1185-90****
2.2	26.5	29.5	14.5	22.5	0.8	C29Q1225-90****
0.47	32.0	18.0	9.0	27.5	0.8	C29Q1474-B0****
0.56	32.0	18.0	9.0	27.5	0.8	C29Q1564-B0****
0.68	32.0	18.0	9.0	27.5	0.8	C29Q1684-B0****
0.82	32.0	18.0	9.0	27.5	0.8	C29Q1824-B0****
1.0	32.0	20.0	11.0	27.5	0.8	C29Q1105-B0****
1.5	32.0	22.0	13.0	27.5	0.8	C29Q1155-B0****
2.2	32.0	28.0	14.0	27.5	0.8	C29Q1225-B0****
3.3	32.0	30.0	16.0	27.5	0.8	C29Q1335-B0****
3.9	32.0	33.0	18.0	27.5	0.8	C29Q1395-B0****
4.7M	32.0	33.0	18.0	27.5	0.8	C29Q1475MB0****
4.7	32.0	37.0	22.0	27.5	0.8	C29Q1475-B0****
1.0	41.0	22.0	11.0	37.5	1.0	C29Q1105-F0****
1.5	41.0	22.0	11.0	37.5	1.0	C29Q1155-F0****
2.2	41.0	24.0	13.0	37.5	1.0	C29Q1225-F0****
3.3	42.0	28.0	14.0	37.5	1.0	C29Q1335-F0****
3.9	41.0	30.0	16.0	37.5	1.0	C29Q1395-F0****
4.7	41.0	32.0	17.0	37.5	1.0	C29Q1475-F0****
5.6	41.0	33.5	18.5	37.5	1.0	C29Q1565-F0****
6.8	41.0	37.0	22.0	37.5	1.0	C29Q1685-F0****
8.2	41.5	37.5	27.5	37.5	1.0	C29Q1825-F0****
10.0	41.0	43.0	28.0	37.5	1.0	C29Q1106-F0****

备注 Note: 1. “-”表示容量偏差。 “-”=capacitance tolerance code. M=±20%, K=±10%.

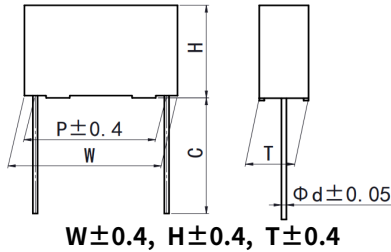
2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).



C32 (E)

电容降压专用金属化聚丙烯膜交流电容器 Metallized polypropylene film A.C.capacitor for capacitive divider

外形图 Outline Drawing



特点

特点

- 专门设计用于与电源串联的电容降压电路场合，如 LED 模块等。
- 金属化聚丙烯膜结构
- 自愈性能优异，能承受过电压冲击
- 长期负载下优异的电容容量稳定性
- 优异的防潮性能
- 优异的阻燃性能

Features

Features

- This is specifically designed for applications in serial with the main, i.e.: capacitive divider, for example, energy meter, LED driver etc.
- Metallized polypropylene
- Good self-healing properties, withstanding overvoltage stressing
- Long stability of capacitance
- Good properties in damp environment
- Excellent active and passive flame resistant abilities

技术要求 Specifications

引用标准 Reference Standard	GB/T 14579(IEC60384-17)		
气候类别 Climatic Category	55/105/56		
额定温度 Rated temperature	85°C		
工作温度范围 Operating Teperature Range	-55°C ~ +105°C(+85°C to +105°C: decreasing factor 1.25% per °C for U _R)		
额定电压 Rated Voltage (U _R)	230Vac, 50Hz/60Hz	250Vac, 50Hz/60Hz	300Vac/275Vac, 50Hz/60Hz
最大连续直流电压 Maximum continuous DC voltage	400Vdc	560Vdc	630Vdc
电容量范围 Capacitance Range	0.033μF~4.7μF	0.010μF~4.0μF	0.010μF~2.2μF
耐电压 Voltage Proof (引线之间 Between Terminals)	640Vdc, 2s	900Vdc, 2s	1 500Vdc, 2s
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)		
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF (20°C, 100V, 1min) RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor (tanδ)	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)		≤ 20 × 10 ⁻⁴ (20°C, 10kHz)

注:长寿命要求和连续使用请用 275Vac 及以上电压。

Note: For long life time and continuous working, please choose 275Vac and upwards voltage.



■ 产品编码说明 Part number system

■ 15 位产品代码如下：

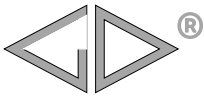
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	2							E					

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C32		C32
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	P5=230V E2=250V P2=275V Q1=300V		P5=230V E2=250V P2=275V Q1=300V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm		3=7.5mm 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=7.5mm) P3=25.4mm; H=18.5mm (For pitch=10.0/15.0mm) (Detail parameter refer to page 16)
		4	F=10.0mm			5	
		6	F=15.0mm				
C	直脚 Straight lead "C" in the figure above	代码 Code	说明 explanation	0		0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		00	标准的引线长度(18mm~26 mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



C32 (E)

■ 外形尺寸 Dimensions(mm)

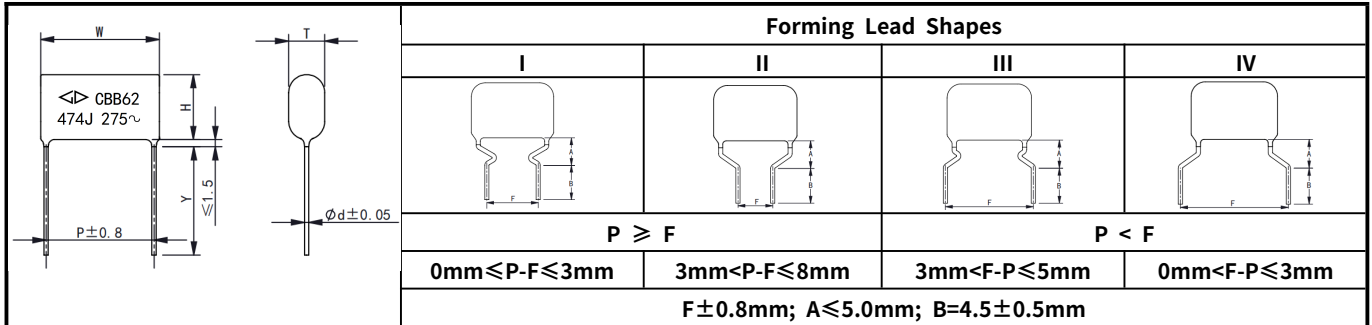
230Vac							250Vac							300Vac/275Vac [#]							
C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	C _N (μF)	W	H	T	P	d	Part number	
0.033	10.5	11.0	5.0	7.5	0.6	C32P5333-3E****	0.010	13.0	9.0	4.0	10.0	0.6	C32E2103-4E****	0.010	13.0	9.0	4.0	10.0	0.6	C32Q1103-4E****	
0.047	10.5	12.0	6.0	7.5	0.6	C32P5473-3E****	0.015	13.0	9.0	4.0	10.0	0.6	C32E2153-4E****	0.015	13.0	11.0	5.0	10.0	0.6	C32Q1153-4E****	
0.033	13.0	9.0	4.0	10.0	0.6	C32P5333-4E****	0.022	13.0	9.0	4.0	10.0	0.6	C32E2223-4E****	0.022	13.0	12.0	6.0	10.0	0.6	C32Q1223-4E****	
0.047	13.0	11.0	5.0	10.0	0.6	C32P5473-4E****	0.033	13.0	11.0	5.0	10.0	0.6	C32E2333-4E****	0.033	13.0	12.0	6.0	10.0	0.6	C32Q1333-4E****	
0.068	13.0	12.0	6.0	10.0	0.6	C32P5683-4E****	0.047	13.0	11.0	5.0	10.0	0.6	C32E2473-4E****	0.010	17.5	11.0	5.0	15.0	0.6	C32Q1103-6E****	
0.10	13.0	12.0	6.0	10.0	0.6	C32P5104-4E****	0.068	13.0	12.0	6.0	10.0	0.6	C32E2683-4E****	0.015	17.5	11.0	5.0	15.0	0.6	C32Q1153-6E****	
0.10	17.5	11.0	5.0	15.0	0.6	C32P5104-6E****	0.068	17.5	11.0	5.0	15.0	0.6	C32E2683-6E****	0.022	17.5	11.0	5.0	15.0	0.6	C32Q1223-6E****	
0.15	17.5	12.0	6.0	15.0	0.6	C32P5154-6E****	0.10	17.5	12.0	6.0	15.0	0.6	C32E2104-6E****	0.033	17.5	11.0	5.0	15.0	0.6	C32Q1333-6E****	
0.22	17.5	13.5	7.5	15.0	0.6	C32P5224-6E****	0.15	17.5	13.5	7.5	15.0	0.6	C32E2154-6E****	0.047	17.5	12.0	6.0	15.0	0.6	C32Q1473-6E****	
0.33	17.5	14.5	8.5	15.0	0.6	C32P5334-6E****	0.22	17.5	14.5	8.5	15.0	0.6	C32E2224-6E****	0.068	17.5	13.5	7.5	15.0	0.6	C32Q1683-6E****	
0.47	17.5	16.0	10.0	15.0	0.8	C32P5474-6E****	0.33	17.5	16.0	10.0	15.0	0.8	C32E2334-6E****	0.10	17.5	14.5	8.5	15.0	0.6	C32Q1104-6E****	
0.33	26.5	15.0	6.0	22.5	0.8	C32P5334-9E****	0.22	26.5	15.0	6.0	22.5	0.8	C32E2224-9E****	0.15	17.5	16.0	10.0	15.0	0.8	C32Q1154-6E****	
0.47	26.5	16.0	7.0	22.5	0.8	C32P5474-9E****	0.33	26.5	16.0	7.0	22.5	0.8	C32E2334-9E****	0.22	17.5	19.0	11.0	15.0	0.8	C32Q1224-6E****	
0.56	26.5	17.0	8.5	22.5	0.8	C32P5564-9E****	0.39	26.5	17.0	8.5	22.5	0.8	C32E2394-9E****	0.068	26.5	15.0	6.0	22.5	0.8	C32Q1683-9E****	
0.68	26.5	17.0	8.5	22.5	0.8	C32P5684-9E****	0.47	26.5	17.0	8.5	22.5	0.8	C32E2474-9E****	0.10	26.5	15.0	6.0	22.5	0.8	C32Q1104-9E****	
0.82	26.5	18.5	10.0	22.5	0.8	C32P5824-9E****	0.56	26.5	18.5	10.0	22.5	0.8	C32E2564-9E****	0.15	26.5	16.0	7.0	22.5	0.8	C32Q1154-9E****	
1.0	26.5	20.0	11.0	22.5	0.8	C32P5105-9E****	0.68	26.5	18.5	10.0	22.5	0.8	C32E2684-9E****	0.22	26.5	17.0	8.5	22.5	0.8	C32Q1224-9E****	
1.2	26.5	20.0	11.0	22.5	0.8	C32P5125-9E****	0.82	26.5	20.0	11.0	22.5	0.8	C32E2824-9E****	0.33	26.5	18.5	10.0	22.5	0.8	C32Q1334-9E****	
1.5	26.5	22.0	12.0	22.5	0.8	C32P5155-9E****	1.0	26.5	22.0	12.0	22.5	0.8	C32E2105-9E****	0.39	26.5	20.0	11.0	22.5	0.8	C32Q1394-9E****	
0.47	32.0	18.0	9.0	27.5	0.8	C32P5474-BE****	1.2	26.5	24.5	15.5	22.5	0.8	C32E2125-9E****	0.47	26.5	22.0	12.0	22.5	0.8	C32Q1474-9E****	
0.56	32.0	18.0	9.0	27.5	0.8	C32P5564-BE****	1.5	26.5	24.5	15.5	22.5	0.8	C32E2155-9E****	0.22	32.0	18.0	9.0	27.5	0.8	C32Q1224-BE****	
0.68	32.0	18.0	9.0	27.5	0.8	C32P5684-BE****	0.47	32.0	18.0	9.0	27.5	0.8	C32E2474-BE****	0.33	32.0	18.0	9.0	27.5	0.8	C32Q1334-BE****	
1.0	32.0	18.0	9.0	27.5	0.8	C32P5105-BE****	0.56	32.0	18.0	9.0	27.5	0.8	C32E2564-BE****	0.47	32.0	20.0	11.0	27.5	0.8	C32Q1474-BE****	
1.2	32.0	20.0	11.0	27.5	0.8	C32P5125-BE****	0.68	32.0	18.0	9.0	27.5	0.8	C32E2684-BE****	0.56	32.0	22.0	13.0	27.5	0.8	C32Q1564-BE****	
1.5	32.0	20.0	11.0	27.5	0.8	C32P5155-BE****	1.0	32.0	20.0	11.0	27.5	0.8	C32E2105-BE****	0.68	32.0	22.0	13.0	27.5	0.8	C32Q1684-BE****	
2.0	32.0	22.0	13.0	27.5	0.8	C32P5205-BE****	1.2	32.0	22.0	13.0	27.5	0.8	C32E2125-BE****	1.0	32.0	28.0	14.0	27.5	0.8	C32Q1105-BE****	
2.2	32.0	24.5	15.0	27.5	0.8	C32P5225-BE****	1.5	32.0	25.0	13.0	27.5	0.8	C32E2155-BE****	1.5	32.0	33.0	18.0	27.5	0.8	C32Q1155-BE****	
3.0	32.0	33.0	18.0	27.5	0.8	C32P5305-BE****	2.0	32.0	33.0	18.0	27.5	0.8	C32E2205-BE****	2.2	32.0	37.0	22.0	27.5	0.8	C32Q1225-BE****	
3.3	32.0	33.0	18.0	27.5	0.8	C32P5335-BE****	2.2	32.0	33.0	18.0	27.5	0.8	C32E2225-BE****								
4.0	32.0	33.0	18.0	27.5	0.8	C32P5405-BE****	3.0	32.0	33.0	18.0	27.5	0.8	C32E2305-BE****								
4.7	32.0	37.0	22.0	27.5	0.8	C32P5475-BE****	3.3	32.0	33.0	18.0	27.5	0.8	C32E2335-BE****								
							4.0	32.0	37.0	22.0	27.5	0.8	C32E2405-BE****								

- 备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%。
 2. “****” 表示引线加工和包装代码(见表1)。 “****” =lead form and packing code(refer to table 1).
 3. “#” 当额定电压为 275Vac 时, 第 4~5 位是 P2。 “#” when the rated voltage is 275Vac, the digit 4~5 is P2.



电容降压专用金属化聚丙烯膜交流电容器(浸渍型) Metallized polypropylene film A.C. capacitor for capacitive divider(Dipped)

外形图 Outline Drawing



特点

- 专门设计用于与 100Vac~240Vac 电源串联的电容降压电路应用场合，如电表、LED 模块等。
- 金属化聚丙烯
- 自愈性能优异，能承受浪涌电压冲击
- 长期负载下优异的电容容量稳定性
- 阻燃环氧粉末包封（UL94/V-0）

Features

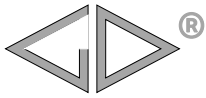
- This is specifically designed for applications in serial with the 100Vac~240Vac main, i.e.: capacitive divider, for example, energy meter, LED driver etc
- Metallized polypropylene structure
- Good self-healing properties,withstanding surge voltage stressing
- Long stability of capacitance
- flame resistant epoxy resin powder coating (UL94/V-0)

技术要求 Specifications

引用标准 Reference Standard	GB/T 14579 (IEC 60384-17)			
气候类别/阻燃等级 Climatic Category	40/085/56/B			
额定温度 Rated temperature	85°C			
工作温度范围 Operating Temperature Range	- 40°C ~ +85°C			
额定电压 Rated Voltage (U_R)	160Vac, 50Hz/60Hz	230Vac, 50Hz/60Hz	250Vac, 50Hz/60Hz	300Vac/275Vac, 50Hz/60Hz
最大连续直流电压 Maximum continuous DC voltage	250Vdc	400Vdc	560Vdc	630Vdc
电容量范围 Capacitance Range	0.22 μ F~2.2 μ F	0.033 μ F~4.7 μ F	0.010 μ F~4.0 μ F	0.10 μ F~1.0 μ F
耐电压 Voltage Proof (引线之间 Between Terminals)	400Vdc, 2s	640Vdc, 2s	900Vdc, 2s	1 500Vdc, 2s
电容量偏差 Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M)			
绝缘电阻 Insulation Resistance	$R \geq 15\ 000\ \Omega$, $C_N \leq 0.33\ \mu\text{F}$ $RC_N \geq 5\ 000\text{s}$, $C_N > 0.33\ \mu\text{F}$ (20°C, 100V, 1min)			
损耗角正切 Dissipation Factor($\tan\delta$)	$\leq 10 \times 10^{-4}$ (20°C, 1kHz) 典型值 Typical value 2×10^{-4} $\leq 20 \times 10^{-4}$ (20°C, 10kHz) 典型值 Typical value 2×10^{-4}			

注：长寿命要求和连续使用请用 275Vac 及以上电压。

Note: For long life time and continuous working, please choose 275Vac and upwards voltage.



CBB62
Code:C49

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

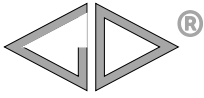
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	9												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C49=CBB69		C49=CBB69
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	C2=160V P5=230V E2=250V		C2=160V P5=230V E2=250V
	P2=275V Q1=300V		P2=275V Q1=300V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	J=±5%, K=±10%, M=±20%		J=±5%, K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	3=7.5mm 4=10.0mm 6=15.0mm		3=7.5mm 4=10.0mm 6=15.0mm
	9=22.5mm A=25.0mm B=27.5mm		9=22.5mm A=25.0mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

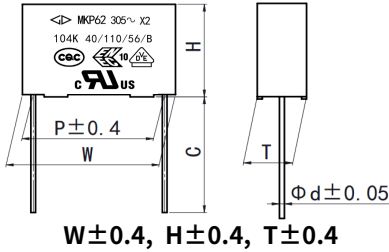
第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
F	引线成型 lead kinked	9	F=22.5mm	0	B=4.5mm (The length Of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
Y	直脚 straight lead "Y" in the figure above	代码 Code	说明 explanation			0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				
第 12-15 位代码为 "C000" 表示标准的引线长度(18mm ~ 30mm) Digit12-15 code "C000" means standard lead length (18mm ~ 30mm)							



MKP62
Code:C42(E)

电容降压专用金属化聚丙烯膜交流电容器 (X2 类) Metallized polypropylene film A.C. capacitor for capacitive divider(Class X2)

外形图 Outline Drawing



特点

- 专门设计用于与 100Vac ~ 240Vac 电源串联的电容降压电路场合，如电表、LED 模块等。
- 金属化聚丙烯
- 自愈性能优异，能承受浪涌电压冲击
- 长期负载下优异的电容容量稳定性
- 优异的防潮性能
- 优异的阻燃性能

Features

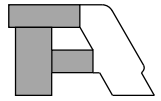
- This is specifically designed for applications in serial with the 100Vac~240Vac main, i.e.: capacitive divider, for example, energy meter, LED driver etc
- Metallized polypropylene structure
- Good self-healing properties,withstanding surge voltage
- Long stability of capacitance
- Good properties in damp environment
- Excellent active and passive flame resistant abilities

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8
●		KC (韩国)	K 60384-14(2006-12), X2, 305Vac/275Vac, 0.0010μF ~ 3.0μF, 40/110/56/B 证书号(Certificate No.): SU03060-12001A/12002/12003/12004

技术要求 Specifications

引用标准 Reference Standard	GB/T 6346.14 (IEC60384-14)	
安全认证 Safety Approvals	CQC03001002875; ENEC-VDE: 40000358; UL-CUL: E186600, CCN: FOWX2/8	
气候类别/阻燃等级 Climatic Category/Passive Flammability	40/110/56/B	
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C	
额定电压 Rated Voltage(U _R)	305Vac, 50Hz/60Hz	
电容量范围 Capacitance Range	0.010μF ~ 2.2μF(可按要求制作其他电容量) (available on request)	
电容量偏差 Capacitance Tolerance	按客户需求提供 (available on request)	
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s
	极壳之间 Between Terminals To Case:	2.120Vac, 1min
承受的脉冲电压 Endure impulse voltage	2 500V	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF R _{CN} ≥ 5 000s, C _N > 0.33μF (20°C, 100V, 1min)	
损耗角正切 Dissipation Factor(tanδ)	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)	典型值 Typical value 2 × 10 ⁻⁴
	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)	典型值 Typical value 2 × 10 ⁻⁴
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我技术工程师联系; 3. 若用于户外或长期湿度较大场合, 建议选用防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THB series.	



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

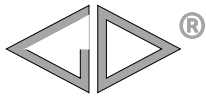
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	2							E					

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C42= MKP62		C42= MKP62
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V		Q2=305V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:474=47×10 ⁴ pF=0.47μF		for example: 474=47×10 ⁴ pF=0.47μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	见外形尺寸表		Refer to Dimensions table
第 10 位	引线脚距 P	Digit 10	Pitch
	4=10.0mm 6=15.0mm		4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm		9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位和第 14 位 Digit 13 and Digit 14				第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
C	直脚 Straight lead "C" in the figure above	00	标准的引线长度(18mm~26 mm) standard lead length	0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length		
		45	引线长度 4.5mm lead length 4.5mm				



MKP62
Code:C42(E)

■ 外形尺寸 Dimensions(mm)

305Vac								
C _N (μF)	tolerance	marking	W	H	T	P	d	Part number
0.010	±5%	K	13.0	9.0	4.0	10.0	0.6	C42Q2103K4E****
0.022	±5%	K	13.0	11.0	5.0	10.0	0.6	C42Q2223K4E****
0.033	±5%	K	13.0	12.0	6.0	10.0	0.6	C42Q2333K4E****
0.047	±5%	K	13.0	12.0	6.0	10.0	0.6	C42Q2473K4E****
0.010	±5%	K	17.5	11.0	5.0	15.0	0.6	C42Q2103K6E****
0.015	±5%	K	17.5	11.0	5.0	15.0	0.6	C42Q2153K6E****
0.022	±5%	K	17.5	11.0	5.0	15.0	0.6	C42Q2223K6E****
0.033	±5%	K	17.5	11.0	5.0	15.0	0.6	C42Q2333K6E****
0.047	±5%	K	17.5	11.0	5.0	15.0	0.6	C42Q2473K6E****
0.068	±5%	K	17.5	12.0	6.0	15.0	0.6	C42Q2683K6E****
0.10	±5%	K	17.5	13.5	7.5	15.0	0.6	C42Q2104K6E****
0.15	±5%	K	17.5	14.5	8.5	15.0	0.6	C42Q2154K6E****
0.22	±5%	K	17.5	16.0	10.0	15.0	0.8	C42Q2224K6E****
0.33	±5%	K	17.5	19.0	11.0	15.0	0.8	C42Q2334K6E****
0.15	±5%	K	26.5	15.0	6.0	22.5	0.8	C42Q2154K9E****
0.18	±5%	K	26.5	16.0	7.0	22.5	0.8	C42Q2184K9E****
0.22	±5%	K	26.5	16.0	7.0	22.5	0.8	C42Q2224K9E****
0.27	±5%	K	26.5	17.0	8.5	22.5	0.8	C42Q2274K9E****
0.33	±5%	K	26.5	17.0	8.5	22.5	0.8	C42Q2334K9E****
0.39	±5%	K	26.5	18.5	10.0	22.5	0.8	C42Q2394K9E****
0.39	0 ~ +10%	K	26.5	18.5	10.0	22.5	0.8	C42Q2394N9E****
0.39	+4% ~ +14%	M	26.5	18.5	10.0	22.5	0.8	C42Q239419E****
0.47	-14% ~ -5%	M	26.5	18.5	10.0	22.5	0.8	C42Q247439E****
0.47	-10% ~ 0	K	26.5	20.0	11.0	22.5	0.8	C42Q247429E****
0.47	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2474K9E****
0.47	0 ~ +10%	K	26.5	20.0	11.0	22.5	0.8	C42Q2474N9E****
0.56	±5%	K	26.5	18.5	10.0	22.5	0.8	C42Q2564K9E****
0.56	0 ~ +10%	K	26.5	18.5	10.0	22.5	0.8	C42Q2564N9E****
0.60	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2604K9E****
0.68	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2684K9E****
0.68	0 ~ +10%	K	26.5	20.0	11.0	22.5	0.8	C42Q2684N9E****
0.75	±5%	K	26.5	20.0	11.0	22.5	0.8	C42Q2754K9E****
0.82	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2824K9E****
0.87	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2874K9E****
0.91	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2914K9E****
1.0	±5%	K	26.5	22.0	12.0	22.5	0.8	C42Q2105K9E****
0.39	±5%	K	32.0	18.0	9.0	27.5	0.8	C42Q2394KBE****
0.47	±5%	K	32.0	18.0	9.0	27.5	0.8	C42Q2474KBE****
0.56	±5%	K	32.0	20.0	11.0	27.5	0.8	C42Q2564KBE****
0.56	0 ~ +10%	K	32.0	20.0	11.0	27.5	0.8	C42Q2564NBE****
0.60	±5%	K	32.0	20.0	11.0	27.5	0.8	C42Q2604KBE****
0.68	±5%	K	32.0	20.0	11.0	27.5	0.8	C42Q2684KBE****
0.68	0 ~ +10%	K	32.0	20.0	11.0	27.5	0.8	C42Q2684NBE****
0.82	±5%	K	32.0	22.0	13.0	27.5	0.8	C42Q2824KBE****
1.0	±5%	K	32.0	22.0	13.0	27.5	0.8	C42Q2105KBE****
1.2	±5%	K	32.0	28.0	14.0	27.5	0.8	C42Q2125KBE****
1.5	±5%	K	32.0	28.0	14.0	27.5	0.8	C42Q2155KBE****
1.8	±5%	K	32.0	30.0	16.0	27.5	0.8	C42Q2185KBE****
2.2	±5%	K	32.0	33.0	18.0	27.5	0.8	C42Q2225KBE****

备注 Note: 1. “-”表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%.

2. 380Vac 电源场合建议使用 MKP65。详细请与技术人员联系。

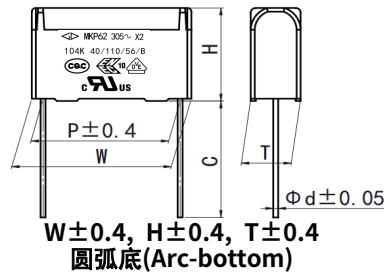
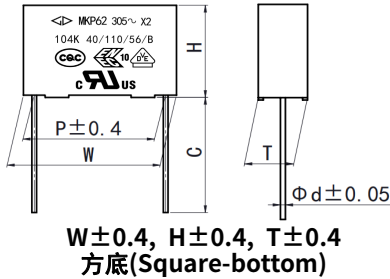
If used in the 380Vac, Pls refer to MKP65. Pls contact our technical engineer for more details.



金属化聚丙烯膜抗干扰电容器(X2类, THB 防潮系列)

Metallized polypropylene film Interference Suppression capacitor (Class X2, Temperature Humidity Bias (THB) series)

外形图 Outline Drawing



特点

- 在严苛的环境下(如高温高湿)长期应用容量稳定性优异
- 自愈性能优异, 能承受浪涌电压冲击
- 优异的阻燃性能

Features

- High stability of capacitance under severe ambient condition, such as high temperature and high humidity
- Good self-healing properties, withstanding surge voltage stressing
- Excellent active and passive flame resistant abilities

应用

- 电源串联连接用
- 阻容降压应用
- 例如: 电表, LED 供电模块及其他苛刻应用环境

Applications

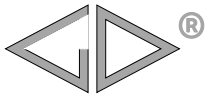
- For connection in series with the mains
- For capacitive divider power supply
- Such as power meter, LED driver, and other severe ambient condition applications

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8
●		KC (韩国)	K 60384-14(2006-12), X2, 305Vac/275Vac, 0.0010μF ~ 3.0μF, 40/110/56/B 证书号(Certificate No.): SU03060-12001A/12002/12003/12004

技术要求 Specifications

引用标准 Reference Standard	GB/T 6346.14 (IEC60384-14)		
气候类别/阻燃等级 Climatic Category/Passive Flammability	40/110/56/B		
工作温度范围 Operating Temperature Range	-40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	305Vac/275Vac, 50Hz/60Hz		
电容量范围 Capacitance Range	0.010μF ~ 15.0μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M) (Other tolerance available on request)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	C _N ≤ 1.0μF	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	C _N > 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
耐湿负荷测试 THB test (Damp heat test with loading)	Temperature: 85°C ± 2°C; Humidity: 85%RH ± 2%RH Voltage: 240Vac 50Hz; Duration: 1 000 hours Capacitance change(ΔC/C): ≤ 10% Dissipation factor change (Δtanδ): ≤ 0.5% (1kHz) Insulation resistance: ≥ 50% of the rated value		
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail.		



MKP62
Code:C42(W)

■ **产品编码说明 Part number system**

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	2								W				

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C42=MKP62		C42=MKP62
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V P2=275V		Q2=305V P2=275V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:474=47×10 ⁴ pF=0.47μF		for example: 474=47×10 ⁴ pF=0.47μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	6=15.0mm 9=22.5mm		6=15.0mm 9=22.5mm
	B=27.5mm F=37.5mm		B=27.5mm F=37.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ **Table 1 引线加工和包装代码 lead form and packaging code**

第 12 位 Digit 12		第 13 位和第 14 位 Digit 13 and Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
C	直脚 Straight lead "C" in the figure above	00	标准的引线长度(18mm~26mm) standard lead length	0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		45	引线长度 4.5mm lead length 4.5mm		

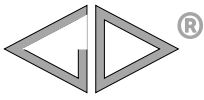


■ 外形尺寸 Dimensions(mm)

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.010	17.5	11.0	5.0	15.0	0.6	C42Q2103-6W****
0.015	17.5	11.0	5.0	15.0	0.6	C42Q2153-6W****
0.022	17.5	11.0	5.0	15.0	0.6	C42Q2223-6W****
0.033	17.5	11.0	5.0	15.0	0.6	C42Q2333-6W****
0.047	17.5	11.0	5.0	15.0	0.6	C42Q2473-6W****
0.068	17.5	11.0	5.0	15.0	0.6	C42Q2683-6W****
0.10	17.5	12.0	6.0	15.0	0.6	C42Q2104-6W****
0.15	17.5	13.5	7.5	15.0	0.6	C42Q2154-6W****
0.22	17.5	14.5	8.5	15.0	0.8	C42Q2224-6W****
0.27	17.5	16.0	10.0	15.0	0.8	C42Q2274-6W****
0.33	17.5	16.0	10.0	15.0	0.8	C42Q2334-6W****
0.39	17.5	19.0	11.0	15.0	0.8	C42Q2394-6W****
0.47	17.5	19.0	11.0	15.0	0.8	C42Q2474-6W****
0.10	26.5	15.0	6.0	22.5	0.6	C42Q2104-9W****
0.15	26.5	15.0	6.0	22.5	0.6	C42Q2154-9W****
0.22	26.5	15.0	6.0	22.5	0.6	C42Q2224-9W****
0.27	26.5	16.0	7.0	22.5	0.6	C42Q2274-9W****
0.33	26.5	16.0	7.0	22.5	0.6	C42Q2334-9W****
0.39	26.5	17.0	8.5	22.5	0.8	C42Q2394-9W****
0.47	26.5	17.0	8.5	22.5	0.8	C42Q2474-9W****
0.56	26.5	18.5	10.0	22.5	0.8	C42Q2564-9W****
0.68	26.5	18.5	10.0	22.5	0.8	C42Q2684-9W****
0.82	26.5	20.0	11.0	22.5	0.8	C42Q2824-9W****
1.0	26.5	22.0	12.0	22.5	0.8	C42Q2105-9W****
1.2	26.5	24.5	15.5	22.5	0.8	C42Q2125-9W****
1.5	26.5	24.5	15.5	22.5	0.8	C42Q2155-9W****

305Vac/275Vac [#]						
C _N (μF)	W	H	T	P	d	Part number
0.47	32.0	18.0	9.0	27.5	0.8	C42Q2474-BW****
0.56	32.0	18.0	9.0	27.5	0.8	C42Q2564-BW****
0.68	32.0	18.0	9.0	27.5	0.8	C42Q2684-BW****
0.82	32.0	20.0	11.0	27.5	0.8	C42Q2824-BW****
1.0	32.0	20.0	11.0	27.5	0.8	C42Q2105-BW****
1.2	32.0	22.0	13.0	27.5	0.8	C42Q2125-BW****
1.5	32.0	22.0	13.0	27.5	0.8	C42Q2155-BW****
2.2	32.0	28.0	14.0	27.5	0.8	C42Q2225-BW****
2.7	32.0	33.0	18.0	27.5	0.8	C42Q2275-BW****
3.3	32.0	33.0	18.0	27.5	0.8	C42Q2335-BW****
★ 3.9	32.0	37.0	22.0	27.5	0.8	C42Q2395-BW****
★ 4.7	32.0	37.0	22.0	27.5	0.8	C42Q2475-BW****
★ 2.2	41.0	26.0	12.0	37.5	1.0	C42Q2225-FW****
★ 2.7	41.0	28.0	14.0	37.5	1.0	C42Q2275-FW****
3.3	41.0	30.0	16.0	37.5	1.0	C42Q2335-FW****
★ 3.9	41.0	32.0	17.0	37.5	1.0	C42Q2395-FW****
4.7	41.0	33.5	18.5	37.5	1.0	C42Q2475-FW****
5.6	41.0	34.0	20.0	37.5	1.0	C42Q2565-FW****
6.8	41.0	37.0	22.0	37.5	1.0	C42Q2685-FW****
8.2	41.0	37.0	26.0	37.5	1.0	C42Q2825-FW****
10M	41.0	41.0	26.0	37.5	1.0	C42Q2106MFW****
★ 10K	41.0	43.0	28.0	37.5	1.0	C42Q2106KFW****
★ 12	42.0	45.0	30.0	37.5	1.0	C42Q2126-FW****
★ 15	42.0	50.0	30.0	37.5	1.0	C42Q2156-FW****

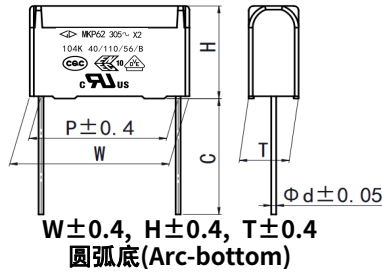
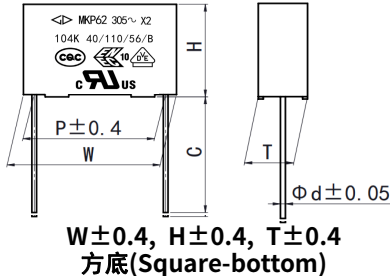
- 备注 Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code. M=±20%, K=±10%。
 2. “****”表示引线加工和包装代码(见表1)。“****”=lead form and packing code(refer to table 1).
 3. “#”当额定电压为275Vac时,第4~5位是P2。“#”when the rated voltage is 275Vac,the digit 4~5 is P2.
 4. 380Vac电源场合建议使用MKP65。详细请与技术人员联系。
 If used in the 380Vac, Pls refer to MKP65. Pls contact our technical engineer for more details.
 5. “★”表示外壳为圆弧底。“★”=Arc-bottom of the outer shell.



MKP62
Code:C42(Z)

金属化聚丙烯膜抗干扰电容器(X2类, THB防潮系列, 小型化) Metallized polypropylene film Interference Suppression capacitor (Class X2, Temperature Humidity Bias (THB) series, Miniature version)

外形图 Outline Drawing



特点

- 在严苛的环境下(如高温高湿)长期应用容量稳定性优异
- 自愈性能优异, 能承受浪涌电压冲击
- 优异的阻燃性能

应用

- 电源串联连接用
- 阻容降压应用
- 例如: 电表, LED 供电模块及其他苛刻应用环境

Features

- High stability of capacitance under severe ambient condition, such as high temperature and high humidity
- Good self-healing properties, withstanding surge voltage stressing
- Excellent active and passive flame resistant abilities

Applications

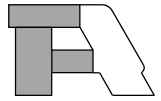
- For connection in series with the mains
- For capacitive divider power supply
- Such as power meter, LED driver, and other severe ambient condition applications

安全认证 Safety Approvals

●		CQC (中国)	IEC 60384-14:2013, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): CQC03001002875
●		ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(Certificate No.): 40000358
●		UL/CUL (美国/加拿大)	UL 60384-14:2009, CSA E60384-14:09, X2, 305Vac/275Vac, 0.0010μF ~ 50.0μF, 40/110/56/B 证书号(File No.): E186600, CCN: FOWX2/8
●		KC (韩国)	K 60384-14(2006-12), X2, 305Vac/275Vac, 0.0010μF ~ 3.0μF, 40/110/56/B 证书号(Certificate No.): SU03060-12001A/12002/12003/12004

技术要求 Specifications

引用标准 Reference Standard	GB/T 6346.14 (IEC60384-14)		
气候类别/阻燃等级 Climatic Category/Passive Flammability	40/110/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C		
额定电压 Rated Voltage(U _R)	305Vac/275Vac, 50Hz/60Hz		
电容量范围 Capacitance Range	0.15μF ~ 8.2μF		
电容量偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _R (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2 120Vac, 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF	(20°C, 100V, 1min)	
	RC _N ≥ 5 000s, C _N > 0.33μF		
损耗角正切 Dissipation Factor(tanδ)	C _N ≤ 1.0μF	≤ 10 × 10 ⁻⁴ (20°C, 1kHz)	≤ 20 × 10 ⁻⁴ (20°C, 10kHz)
	C _N > 1.0μF	≤ 20 × 10 ⁻⁴ (20°C, 1kHz)	≤ 40 × 10 ⁻⁴ (20°C, 10kHz)
耐湿负荷测试 THB test (Damp heat test with loading)	Temperature: 85°C ± 2°C; Humidity: 85%RH ± 2%RH Voltage: 240Vac 50Hz; Duration: 1 000 hours Capacitance change(ΔC/C): ≤ 10% Dissipation factor change (Δtanδ): ≤ 0.5% (1kHz) Insulation resistance: ≥ 50% of the rated value		
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 建议选用C6A等专用的滤波电容器; 如有疑问, 请与我司技术工程师联系。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, recommend to use AC filter series: C6A etc; If have any questions please contact our technical engineer for more detail.		



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

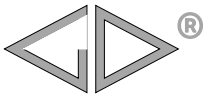
The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	4	2												

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C42= MKP62		C42= MKP62
第 4~5 位	交流额定电压	Digit 4 to 5	AC rated voltage
	Q2=305V P2=275V		Q2=305V P2=275V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例:474=47×10 ⁴ pF=0.47μF		for example: 474=47×10 ⁴ pF=0.47μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	K=±10%, M=±20%		K=±10%, M=±20%
第 10 位	引线脚距 P	Digit 10	Pitch
	6=15.0mm 9=22.5mm B=27.5mm		6=15.0mm 9=22.5mm B=27.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位和第 14 位 Digit 13 and Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
C	直脚 Straight lead "C" in the figure above	00	标准的引线长度(18mm~26 mm) standard lead length	0	引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length
		45	引线长度 4.5mm lead length 4.5mm		



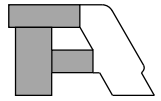
MKP62
Code:C42(Z)

■ 外形尺寸 Dimensions(mm)

305Vac/275Vac #						
C _N (μF)	W	H	T	P	d	Part number
0.15	17.5	13.5	6.0	15.0	0.6	C42Q2154-6Z***
0.22	17.5	13.5	7.5	15.0	0.6	C42Q2224-6Z***
0.33M	17.5	14.5	8.5	15.0	0.6	C42Q2334M6Z***
0.33K	17.5	15.0	9.0	15.0	0.6	C42Q2334K6Z***
0.39	17.5	16.0	10.0	15.0	0.6	C42Q2394-6Z***
0.47	17.5	16.5	11.0	15.0	0.8	C42Q2474-6Z***
0.56	17.5	19.0	11.0	15.0	0.8	C42Q2564-6Z***
0.68	17.5	22.0	11.0	15.0	0.8	C42Q2684-6Z***
0.33	26.5	16.0	7.0	22.5	0.6	C42Q2334-9Z***
0.39	26.5	16.0	7.0	22.5	0.6	C42Q2394-9Z***
0.47	26.5	17.0	7.5	22.5	0.8	C42Q2474-9Z***
0.56	26.5	17.0	8.5	22.5	0.8	C42Q2564-9Z***
0.68	26.5	18.5	9.0	22.5	0.8	C42Q2684-9Z***
0.82	26.5	18.5	10.0	22.5	0.8	C42Q2824-9Z***
1.0	26.5	20.0	11.0	22.5	0.8	C42Q2105-9Z***
1.2	26.5	22.0	12.0	22.5	0.8	C42Q2125-9Z***
1.5	26.5	22.0	13.0	22.5	0.8	C42Q2155-9Z***
1.8	26.5	24.5	14.5	22.5	0.8	C42Q2185-9Z***
2.2	26.5	24.5	15.5	22.5	0.8	C42Q2225-9Z***

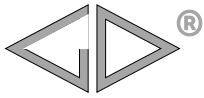
305Vac/275Vac #						
C _N (μF)	W	H	T	P	d	Part number
1.0	32.0	20.0	11.0	27.5	0.8	C42Q2105-BZ***
1.2	32.0	22.0	11.0	27.5	0.8	C42Q2125-BZ***
1.5	32.0	22.0	12.0	27.5	0.8	C42Q2155-BZ***
1.8	32.0	25.0	13.0	27.5	0.8	C42Q2185-BZ***
2.2	32.0	26.0	14.0	27.5	0.8	C42Q2225-BZ***
★ 2.7	32.0	27.0	16.0	27.5	0.8	C42Q2275-BZ***
3.3	32.0	30.0	16.0	27.5	0.8	C42Q2335-BZ***
3.9	32.0	33.0	18.0	27.5	0.8	C42Q2395-BZ***
★ 4.7	32.0	34.0	20.0	27.5	0.8	C42Q2475-BZ***
★ 5.6	32.0	37.0	22.0	27.5	0.8	C42Q2565-BZ***
6.8	32.0	38.0	24.0	27.5	0.8	C42Q2685-BZ***
8.2M	32.0	38.0	24.0	27.5	0.8	C42Q2825MBZ***

- 备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code, M=±20%, K=±10%。
 2. “****” 表示引线加工和包装代码(见表 1)。 “****” =lead form and packing code(refer to table 1).
 3. “#” 当额定电压为 275Vac 时, 第 4~5 位是 P2。 “#” when the rated voltage is 275Vac,the digit 4~5 is P2.
 4. 380Vac 电源场合建议使用 MKP65。 详情请与技术人员联系。
 If used in the 380Vac, Pls refer to MKP65. Pls contact our technical engineer for more details.
 5. “★” 表示外壳为圆弧底。 “★” = Arc-bottom of the outer shell.



聚丙烯膜精密电容器 Polypropylene Precision Capacitors

型号 Type	特征 Description	特点 Application	规格 Rating	页码 Page
C31(P) (CBB21)	金属化, 浸渍型 Metallized, dipped	定时电路、LC 滤波器、振荡电路等要求高频高稳定性的应用场合 Timing, LC-filter, oscillator circuits, applications with high frequencies and high stability, etc.	63/100V: 1.0nF~100nF	176



C31 (P)
CBB21 series

金属化聚丙烯膜精密电容器(浸渍型) Metallized polypropylene film capacitor for precision capacitor(Dipped)

■ 外形图 Outline Drawing

	Forming Lead Shapes			
	I	II	III	IV
	$P \geq F$		$P < F$	
	$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$				

■ 特点

- 金属化聚丙烯膜介质
- 电容量温度系数小
- 电容量稳定性好

■ 主要用途

- 定时电路、LC滤波器、振荡电路等要求高频高稳定性的应用场合

■ Features

- Metallized polypropylene film
- Temperature coefficient of capacitance is small
- Good capacitance stability

■ Typical Applications

- Timing, LC-filter, oscillator circuits, applications with high frequencies and high stability, etc

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)	
气候类别 Climatic Category	55/85/56	
额定温度 Rated Temperature	85°C	
额定电压 Rated Voltage	63V, 100V	
电容量范围 Capacitance Range	1.0nF~100nF	
电容量偏差 Capacitance Tolerance	$\pm 1\%(F)$, $\pm 1.25\%(A)$, $\pm 1.5\%(L)$, $\pm 2\%(G)$, $\pm 2.5\%(B)$, $\pm 3\%(H)$	
耐电压 Voltage Proof	1.6U _R (2s)	
损耗角正切 Dissipation Factor	$\leq 8 \times 10^{-4}$	(20°C, 1kHz)
绝缘电阻 Insulation Resistance	$\geq 100\ 000\ \Omega$	(20°C, 10V, 1min)



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

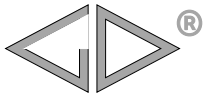
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	1								P				

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C31= CBB21 精密电容		C31= CBB21 for precision capacitor
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	1J=63V 2A=100V		1J=63V 2A=100V
第 6~8 位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10×10 ³ pF=0.01μF		for example: 103=10×10 ³ pF=0.01μF
第 9 位	容量偏差	Digit 9	Capacitance tolerance
	F=±1%, A=±1.25%, L=±1.5%		F=±1%, A=±1.25%, L=±1.5%
	G=±2%, B=±2.5%, H=±3%		G=±2%, B=±2.5%, H=±3%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm 3=7.5mm		2=5.0mm 3=7.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm (For pitch=7.5mm)
		3	F=7.5mm				(Detail parameter refer to page 17)
F	引线成型 lead kinked	2	F=5.0mm	0	B=4.5mm (The length of B)	0	B 的长度偏差±0.5mm B Length tolerance ±0.5mm
		3	F=7.5mm				
		E	F=7.18mm				
				2	B=3.2mm		
				5	B=3.5mm		

第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)



C31 (P)

CBB21 series

■ 外形尺寸 Dimensions(mm)

63Vdc/100Vdc [#]						
C _N (μF)	Wmax	Hmax	Tmax	P	d	Part number
		Crimped lead				
0.0010	7.5	11.0	6.5	5.0	0.5	C311J102-2P****
0.0015	7.5	11.0	6.5	5.0	0.5	C311J152-2P****
0.0022	7.5	11.0	6.5	5.0	0.5	C311J222-2P****
0.0027	7.5	11.0	6.5	5.0	0.5	C311J272-2P****
0.0033	7.5	11.0	6.5	5.0	0.5	C311J332-2P****
0.0039	7.5	11.0	6.5	5.0	0.5	C311J392-2P****
0.0047	7.50	11.5	7.0	5.0	0.5	C311J472-2P****
0.0068	7.50	10.8	6.3	5.0	0.5	C311J682-2P****
0.0082	7.50	11.0	6.5	5.0	0.5	C311J822-2P****
0.010	7.50	11.1	6.6	5.0	0.5	C311J103-2P****
0.022	7.50	10.9	6.4	5.0	0.5	C311J223-2P****
0.0068	10.0	11.2	6.7	7.5	0.5	C311J682-3P****
0.0082	10.0	11.5	7.0	7.5	0.5	C311J822-3P****
0.010	10.0	11.9	7.4	7.5	0.5	C311J103-3P****
0.012	10.0	11.7	7.2	7.5	0.5	C311J123-3P****
0.015	10.0	11.5	7.0	7.5	0.5	C311J153-3P****
0.022	10.0	11.1	6.6	7.5	0.5	C311J223-3P****
0.033	10.0	11.0	6.5	7.5	0.5	C311J333-3P****
0.047	10.0	11.6	7.1	7.5	0.5	C311J473-3P****
0.056	10.0	11.6	7.1	7.5	0.5	C311J563-3P****
0.068	10.0	11.9	7.4	7.5	0.5	C311J683-3P****
0.082	10.0	11.3	6.8	7.5	0.5	C311J823-3P****
0.10	10.0	11.7	7.2	7.5	0.6	C311J104-3P****

- 备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code, F=±1%, A=±1.25%, L=±1.5%, G=±2%, B=±2.5%, H=±3%.
2. “****” 表示引线加工和包装代码(见表 1)。 “****” =lead form and packing code(refer to table 1).
3. “#” 当额定电压为 100Vdc 时, 第 4~5 位是 2A。 “#” when the rated voltage is 100Vdc, the digit 4~5 is 2A.