

Sunlord

Sunlord
expert in e components

2023A

Product Selection Guide



CHIP BEAD

for Low Speed Signal Line	GZ Series							
		Z@100MHz (Ω)	5-1000	0-1800	0-2500	0-2500	0-1200	
for High Speed Signal Line	SZ Series							
		Z@100MHz (Ω)	5-120	0-1800	0-2700	0-2700		
for Power Line	PZ Series							
		Z@100MHz (Ω)	5-1000	0-600	0-600	30-600	0-1000	60-1000
		Rated Current (A)	0.2-1.0	0.45-1.8	0.5-3.0	0.8-4.0	0.5-6.0	1.5-6.0
	UPZ Series						EPZ Series	
	Z@100MHz (Ω)	22-80	0-220	22-600	22-1000	Z@100MHz (Ω)	10-220	
	Rated Current (A)	1.0-1.8	0.9-2.2	1.0-6.0	1.5-6.0	Rated Current (A)	1.2-10.0	
for High frequency Noise Suppression	HZ Series							
		Z@100MHz (Ω)	120-1800	180-1000				
		Rated Current (A)	0.05-0.3	0.05-0.2				
	HPZ Series							
	Z@100MHz (Ω)	120-220	100-1500					
	Rated Current (A)	0.5-1.1	0.15-2.0					
for Audio Line	MZAS Series					MZAH Series		
		Z@100MHz (Ω)	70-1000	60-700		Z@900MHz (Ω)	100-4600	470
Large Current	MZPA/AS Series NEW							
		Z@100MHz (Ω)	100-600	400	300-600	50	30	300-680
Wire Wound Ferrite Bead	WHZ Series							
		Inductance(nH)	20-560	47-22000				
	Rated Current (A)	0.2-1.6	0.13-1.4					

COMMON MODE FILTER

for MIPI, HDMI	SDMM-H Series Multilayer				SDMM-U Series Multilayer					
		Common Mode Z@100MHz (Ω)	90	30	Common Mode Z@100MHz (Ω)	12-25	12-90			
for USB, HDMI	SDCW Series Wire Wound									
		Common Mode Z@100MHz (Ω)	20-360	25-220	67-180	30-1000	300-1000	90-2200	80-1000	330-1400
	SDCW-H Series Wire Wound									
		Common Mode Z@100MHz (Ω)	35-90	67-120	67-120					
	SDCW-U Series Wire Wound									
	Common Mode Z@100MHz (Ω)	14-90	90							

MULTILAYER VARISTOR

for ESD Protection

SDV Series



MAX.Continuous DC Working Voltage (V)
C @ 0.5Vrms, 1MHz (pF)



SDV1005
5.5-42
0.5-80



SDV1608
5.5-48
0.5-360



SDV2012
9-30
50-1000

for Over-voltage Protection

SDVL-HS Series



MAX.Continuous DC Working Voltage (V)
Peak Current 8/20us (A)



SDVL1608-HS
9-100
20-120



SDVL2016-HS
9-150
70-600



SDVL3216-HS
9-100
150-500



SDVL3225-HS
9-100
200-1500



MAX.Continuous DC Working Voltage (V)
Peak Current 8/20us (A)

SDVL4532-HS
9-150
500-3000



SDVL5650-HS
9-150
800-5000

SVMH Series



MAX.Continuous AC Working Voltage (V)
Peak Current 8/20us (A)



SVMH2016KA
150-320
50-180



SVMH3216KA
150-320
60-300



SVMH3225KA
150-320
150-400



SVMH4532KA
175-320
250-800



SVMH5650KA
150-350
800-2000

TANTALUM CAPACITOR

Tantalum Capacitor

TC2 Series MnO₂ Tantalum Capacitor



TC211A/B/C/D/E (for Industry)



TC212A/B/C/D/E (Low ESR)

TC3 Series Polymer Tantalum Capacitor



TC311B/C/D/E



TC312B/C/D/E (High Rated Voltage)

Rated Voltage (V)
Capacitance (uF)
ESR (Ω)

2.5-50
0.15-680
0.4-18

2.5-50
0.15-680
0.12-15

2.5-16
10-680
0.07-0.35

20-100
3.3-220
0.07-0.5

TM Series MnO₂ Tantalum Capacitor

NEW



TM-A12/A16/B12/B15/B20/C20/C25/D20/D28/D40

Rated Voltage (V)
Capacitance (uF)
ESR (Ω)

2.5-50
1-680
150-10000

TP Series Polymer Tantalum Capacitor

NEW



TP-B12/B15/B20/C20/C25/D15/D20/D28/D40

Rated Voltage (V)
Capacitance (uF)
ESR (Ω)

2.0-63
3.3-1000
45-500

CHIP NTC THERMISTOR

Temperature Sensing NTC

SDNT Series

NEW



SDNT0402
10-100
3380-4250



SDNT0603
10-100
3380-4250



SDNT1005
6.8-220
3380-4250



SDNT1608
2.2-220
3380-4300



SDNT2012
4.7-220
3450-4300

Resistance @25 C (kΩ)
25 C /50 C B Constant (K)

10-100
3380-4250

10-100
3380-4250

6.8-220
3380-4250





2.2-220
3380-4300

4.7-220
3450-4300



FOR HIGE FREQUENCY

Multilayer







SDCL Series Ceramic

				
Inductance (nH)	0.2-33	0.6-120	0.6-360	1.0-680
Rated Current (mA)	90-990	80-850	50-800	100-500

SDHL Series Ceramic High Frequency








		
Inductance (nH)	1.0-100	10-180
Rated Current (mA)	100-500	150-500

HQ Series Ceramic High Q






						
Inductance (nH)	0.3-10	0.2-56	0.2-33	0.2-22	0.6-150	0.6-47
Rated Current (mA)	130-650	100-1000	120-990	140-1000	80-1100	130-1000

Wire Wound


MWSD-C Series Ceramic High Q

							
Inductance (nH)	1.0-15	0.8-56	0.8-270	1.0-58	56-220	16-560	1.8-390
Rated Current (mA)	230-900	130-1800	100-1000	315-2300	160-330	70-3200	170-2100

SDWL-C Series Ceramic High Q

					
Inductance (nH)	2.2-4700	3.6-22000	3.3-1200	3.9-22000	24-33000
Rated Current (mA)	30-600	70-1000	300-1000	100-1000	145-1000





SDWL-CP Series Ceramic High Q and Large Current

	
Inductance (nH)	2.6-820
Rated Current (mA)	180-2000



FOR SIGNAL LINE

Multilayer

SDFL Series Ferrite







				
Inductance (μH)	0.047-3.3	0.047-33	0.047-47	0.047-47
Rated Current (mA)	10-25	1-50	4-300	5-300

MCL-N Series Ferrite





		
Inductance (μH)	0.077-0.56	0.077-2.2
Rated Current (mA)	250-550	300-1100

Wire Wound

MWSD-F Series Ferrite

						
Inductance (μH)	0.033-0.2	0.027-0.56	0.018-2.2	0.0049-47	1.0-47	0.68-110
Rated Current (mA)	110-340	90-480	170-2200	50-2600	100-700	100-1040



SDWL-FW Series Ferrite

				
Inductance (μH)	0.27-68	0.33-10	1.5-18	0.12-12
Rated Current (mA)	40-350	300-700	130-320	140-450




FOR POWER LINE

Multilayer






MCL Series Magnetic Shielded

		
	MCL1608	MCL2012
Inductance (µH)	0.1-10	0.1-10
Rated Current (mA)	50-700	60-1000

MCL-A Series Magnetic Shielded







			
	MCL2012A	MCL2016A	MCL2520A
Inductance (µH)	1.0-10	1.0-4.7	1.0-4.7
Rated Current (mA)	150-450	100-900	250-750

MPH Series Magnetic Shielded





					
	MPHM1608	MPH1608	MPH2012	MPH2016	MPH2520
Height (mm)	1.0	0.55/0.65/0.95	0.55/0.6/0.9/1.0/1.4	1.0/1.2	1.0/1.2
Inductance (µH)	1.0-10	0.22-10	0.22-10	0.47-10	0.47-10
Rated Current (mA)	280-1100	60-1350	110-1200	170-1350	210-1750

Wire Wound (Magnetic Resin)





SWPA Series Magnetic Shielded (Single Structure Type)

						
	SWPA2520	SWPA30	SWPA40	SWPA50	SWPA60	SWPA80
Height (mm)	1.0/1.2	1.0/1.2/1.5	1.0/1.2/1.8/2.0/3.0	1.2/2.0/4.0/4.5	2.0/2.8/4.5	4.0/6.0/6.5
Inductance (µH)	0.47-22	0.22-150	0.24-680	0.22-680	0.47-680	0.68-680
Rated Current (mA)	380-2350	190-3000	140-4560	250-6600	330-6500	460-7500




SPH Series Magnetic Shielded (Low DCR)

				
	SPH2016H/U	SPH2520	SPH30	SPH40
Height (mm)	1.0	1.0/1.2	1.0/1.2/1.5	1.2/1.8
Inductance (µH)	0.05-10	0.16-82	0.22-47	0.33-330
Rated Current (mA)	450-3650	300-4050	450-3050	200-4200





WPN Series Magnetic Shielded (Low DCR)

				
	WPN2016	WPN2520	WPN30	WPN40
Height (mm)	1.0/1.2	1.0/1.2	1.0/1.2	1.0/1.2/2.0
Inductance (µH)	0.12-10	0.16-10	0.33-15	0.22-22
Rated Current (mA)	650-5600	800-5000	1000-4200	900-8200





WPG Series Magnetic Shielded (Low DCR)

			
	WPG2012	WPG2016	WPG2520
Height (mm)	1.0	1.0	1.0
Inductance (µH)	0.11-1.0	0.24-2.2	0.24-4.7
Rated Current (mA)	2200-5500	2150-4900	1600-5150

MWPU Series **NEW** Magnetic Shielded (High Frequency)





				
	MWPU1005	MWPU1210	MWPU1412	MWPU1608
Height (mm)	0.6	0.6	0.65	0.9/1.0
Inductance (µH)	1.0-15	0.47-1.5	0.33-0.47	0.24-22
Rated Current (mA)	100-260	300-600	900	160-1700

MWPH Series **NEW** Semi-magnetic shielded (High Frequency)


				
	MWPH1005	MWPH1210	MWPH1412	MWPH1608
Height (mm)	0.6	0.6	0.65	0.6/1.0
Inductance (µH)	1.0-15	0.47-1.5	0.33-0.47	1.0-22
Rated Current (mA)	100-300	300-600	900	100-700

Wire Wound (Co-fired Alloy)



HTF-H Series **NEW** Single-phase Inductor

				
	HTF070415H	HTF100424H	HTF130517H	HTF120840H
L×W×H (mm)	7.0×4.5×1.5	10.0×4.0×2.4	12.8×4.8×1.7	12.8×8.2×4.0
Inductance (nH)	50	100	140	220
Rated Current (A)	40	38	36	38

HTF-MP Series **NEW** Multiphase Inductor

	
	HTF030208MP
L×W×H (mm)	3.2×1.6×0.8
Inductance (nH)	10-20
Rated Current (A)	40







HTF-CL Series **NEW** Coupled Inductor






		
	HTF060524CL	HTF0924CL
L×W×H (mm)	6.0×5.0×2.4	9.3×9.3×2.4
Inductance (nH)	39	330
Rated Current (A)	28	20

FOR POWER LINE




Wire Wound (Assembly)

WPZ Series Magnetic Shielded (Ultra Large Isat)

						
	WPZ 04044S1	WPZ 05057S1	WPZ 06	WPZ 07	WPZ 09068S1	WPZ 0906AB1S1/F1
L×W×H (mm)	4.1×4.0×4.0 /4.3	5.2×5.2×6.5	6.4×6.4×5.3/ 6.5×6.5×10	7.0×6.7/6.9×11	9.6×6.4×8.1	9.6×(6.4,6.6)×10.1
Inductance (nH)	22-100	55-150	70-200	55-330	100-300	70-280
Saturation Current (A)	17-40	25-70	25-120	28-155	32.5-94	30-145







					
	WPZ 1007AS1/CS1	WPZ 11068/11077S1	WPZ 11119S1	WPZ 13083/13138S1	WPZ 16123/18113S1
L×W×H (mm)	10.0×7.0×10.0/10.7 ×7.9/7.7/7.5×12.0	10.6×6.3×8.1/ 11.0×7.4×7.7	11.2×11.2×9.0	13.55×8.55×3.0/ 13.7×12.8×8.1	15.3×11.3×3.0/ 18.0×11.4×3.0
Inductance (nH)	70-470	70-510	50-1000	110-500	145-250
Saturation Current (A)	29-194	18-150	15-180	22-140	30-55



WPZ Series **NEW** Magnetic Shielded (Ultra Large Isat) for TLVR

			
	WPZ 0906AS2/BS2	WPZ 1205CS2	WPZ 1206BS2/CS2
L×W×H (mm)	9.6×6.4×10/11.4	12.0×5.0/5.1×12.0	12.0×6.0×11.1/12.0
Inductance (nH)	70~170	70~170	70~200
Saturation Current (A)	60~149	57~145	55~178

Wire Wound (Molded)








MWSA-S Series Magnetic Shielded (Large Current and Wide Size)

						
	MWSA04	MWSA05	MWSA06	MWSA08	MWSA10	MWSA12
L×W×H (mm)	4.2×4.4×1.0/ 1.8	5.2×5.4×1.3/ 1.6/2.8	6.6×7.0×1.3/ 1.6/1.8/2.2/ 2.8/4.8	8.8×8.2×3.8	10.0×11.5×2.8/ 3.8/4.8	12.6/12.8×13.45×4.0/ 4.8/5.8/6.5
Inductance (µH)	0.10-22	0.1-15	0.1-47	0.15-47	0.13-100	0.1-47
Rated Current (A)	0.9-11.2	1.6-23	1.2-32	2.5-33	1.7-63	1.2-32

		
	MWSA17	MWSA22
L×W×H (mm)	17.15×17.15×6.7	22×23.6×12.6
Inductance (µH)	1.5-100	1.0-100
Rated Current (A)	3.7-33	9.5-65






Wire Wound (Ultra Low Pressure Molded)

WT Series **NEW** Magnetic Shielded (Large Current and Low Loss)

							
	WTH2016	WTXE2520	WTX(E)3225	WTX(E)3230	WTH/X04	WTX06	WTX(E)0717/1330
L×W×H (mm)	2.0×1.6×1.2	2.5×2.0×1.2	3.2×2.5×0.9 /1.0/1.2	3.2×3.0×1.2 /2.0	4.0×4.0×1.5 /2.0/3.1	6.5×6.5×1.4/6.4×6.6 ×1.5/7.25×6.6×2.4 7.1×6.6×3.0	7.8×7.8×1.7/ 12.5×12.5×3.0
Inductance (µH)	1.0	0.22-1.5	0.08-15	0.47-1.0	0.33-6.8	0.1-3.3	1-1.5
Rated Current (A)	4.0	3.2-10	1.1-14.5	6.2-8.0	4.1-18.8	5.0-64	21-25



Wire Wound (Mini Molded)

MWTC Series Magnetic Shielded (Small Size and Ultra Thin)






					
	MWTC1412	MWTC1608	MWTC2012	MWTC2016	MWTC2520
L×W×H (mm)	1.4×1.2×0.65/0.8	1.6×0.8×0.8	2.0×1.2×0.65/0.8/1.0	2.0×1.6×0.8/1.0	2.5×2.0×0.8/1.0
Inductance (µH)	0.24-0.47	0.47-2.2	0.11-2.2	0.24-4.7	0.33-10
Rated Current (A)	3.0-6.5	1.2-3.3	2.1-13	1.6-7.5	1.2-7.5

Wire Wound (Sleeve Type)

SWRB Series Magnetic Shielded


		
	SWRB0703-1207A	SWRB1204S/05S/07S
Height (mm)	3.5-7.8	5.0/6.0/8.0
Inductance (µH)	1.2-680	1.0-1000
Rated Current (mA)	200-8200	480-10000

SWRH Series Magnetic Shielded


					
	SWRH-DR	SWRH-DS	SWRH-DC	SWRH-B	SWRH-C
Height (mm)	1.3/1.6/1.8/2.1	1.8-4.0	3.0/4.0/4.5	3.0-10	3.0/4.0/5.0
Inductance (µH)	1.2-47	1.0-1000	1.5-100	1.0-1200	1.0-1000
Rated Current (mA)	140-1850	140-5200	750-6000	190-11000	230-6500

Wire Wound (No Magnetic Shielded)

SWCB Series

	
	SWCB1305~1807
Height (mm)	5.5-12.0
Inductance (µH)	1.0-1000
Saturation Current (mA)	500-7100



SWCC Series

	
	SWCC0603
Height (mm)	3.0
Inductance (µH)	1.0-68
Saturation Current (mA)	400-2900



TRANSFORMER

PCB Planar Transformer	TPP Series Customized      																				
	<table border="1"> <tr> <td>Dimensions L×W×H (mm)</td> <td>TPPED14 14×24×8.0</td> <td>TPPED18 20×25×13</td> <td>TPPED21 21×31×10</td> <td>TPPED22 24×26×13</td> <td>TPPER25 26×33×10</td> <td>TPPER25 25×46×9</td> </tr> <tr> <td>Power (W), Ref.</td> <td>15</td> <td>18</td> <td>45</td> <td>25</td> <td>65</td> <td>45</td> </tr> <tr> <td>Application</td> <td>AC-DC, PD</td> <td>AC-DC, PD</td> <td>AC-DC, PD</td> <td>AC-DC, PD</td> <td>AC-DC, PD</td> <td>AC-DC, PD</td> </tr> </table>	Dimensions L×W×H (mm)	TPPED14 14×24×8.0	TPPED18 20×25×13	TPPED21 21×31×10	TPPED22 24×26×13	TPPER25 26×33×10	TPPER25 25×46×9	Power (W), Ref.	15	18	45	25	65	45	Application	AC-DC, PD	AC-DC, PD	AC-DC, PD	AC-DC, PD	AC-DC, PD
Dimensions L×W×H (mm)	TPPED14 14×24×8.0	TPPED18 20×25×13	TPPED21 21×31×10	TPPED22 24×26×13	TPPER25 26×33×10	TPPER25 25×46×9															
Power (W), Ref.	15	18	45	25	65	45															
Application	AC-DC, PD	AC-DC, PD	AC-DC, PD	AC-DC, PD	AC-DC, PD	AC-DC, PD															
Winding Transformer	TWS/TWP Series Customized      																				
	<table border="1"> <tr> <td>Dimensions L×W×H (mm)</td> <td>TWS/TWPEP07 8.0×7.0×10</td> <td>TWS/TWPEP09 10×10×11</td> <td>TWS/TWPEP12 16×13×11</td> <td>TWS/TWPEP13 18×14×13</td> <td>TWPEE16 26.5×21×12</td> <td>TWPEE16 26.5×21×16</td> </tr> <tr> <td>Power (W), Ref.</td> <td>3</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>20</td> </tr> <tr> <td>Application</td> <td>xDSL, PoE</td> <td>xDSL, PoE</td> <td>xDSL, PoE</td> <td>xDSL, PoE</td> <td>AC-DC</td> <td>AC-DC</td> </tr> </table>	Dimensions L×W×H (mm)	TWS/TWPEP07 8.0×7.0×10	TWS/TWPEP09 10×10×11	TWS/TWPEP12 16×13×11	TWS/TWPEP13 18×14×13	TWPEE16 26.5×21×12	TWPEE16 26.5×21×16	Power (W), Ref.	3	5	10	15	20	20	Application	xDSL, PoE	xDSL, PoE	xDSL, PoE	xDSL, PoE	AC-DC
Dimensions L×W×H (mm)	TWS/TWPEP07 8.0×7.0×10	TWS/TWPEP09 10×10×11	TWS/TWPEP12 16×13×11	TWS/TWPEP13 18×14×13	TWPEE16 26.5×21×12	TWPEE16 26.5×21×16															
Power (W), Ref.	3	5	10	15	20	20															
Application	xDSL, PoE	xDSL, PoE	xDSL, PoE	xDSL, PoE	AC-DC	AC-DC															
Other Types	RTSB/TW Series Customized																				
	<table border="1"> <tr> <td></td> <td>Ring Core Transformer</td> <td>Pulse Transformer</td> <td>Current Transformer</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dimensions L×W×H (mm)</td> <td>RTSB 7 × 4 × 3</td> <td>TWSHI 4.6×3.2×3.5</td> <td>TWPEP05 7.0×4.5×5.5</td> </tr> <tr> <td>Power (W), Ref.</td> <td><3</td> <td>30</td> <td>30</td> </tr> <tr> <td>Application</td> <td>DC-DC</td> <td>RJ45</td> <td>AD-DC</td> </tr> </table>		Ring Core Transformer	Pulse Transformer	Current Transformer					Dimensions L×W×H (mm)	RTSB 7 × 4 × 3	TWSHI 4.6×3.2×3.5	TWPEP05 7.0×4.5×5.5	Power (W), Ref.	<3	30	30	Application	DC-DC	RJ45	AD-DC
	Ring Core Transformer	Pulse Transformer	Current Transformer																		
																					
Dimensions L×W×H (mm)	RTSB 7 × 4 × 3	TWSHI 4.6×3.2×3.5	TWPEP05 7.0×4.5×5.5																		
Power (W), Ref.	<3	30	30																		
Application	DC-DC	RJ45	AD-DC																		






























WIRELESS CHARGING

Sheet	MQF Series Customized 							
	<table border="1"> <tr> <td>Ferrite Sheet Thickness (mm)</td> <td>MQF 0.08/0.10/0.12/0.14/0.24/0.34/0.44</td> </tr> <tr> <td>Application Freq. (MHz)</td> <td>0.1~6.78</td> </tr> <tr> <td>Magnetic Permeability (u')</td> <td>150±15%/650±20%</td> </tr> <tr> <td>Magnetic Permeability (u'')</td> <td>5/15 Max.</td> </tr> </table>	Ferrite Sheet Thickness (mm)	MQF 0.08/0.10/0.12/0.14/0.24/0.34/0.44	Application Freq. (MHz)	0.1~6.78	Magnetic Permeability (u')	150±15%/650±20%	Magnetic Permeability (u'')
Ferrite Sheet Thickness (mm)	MQF 0.08/0.10/0.12/0.14/0.24/0.34/0.44							
Application Freq. (MHz)	0.1~6.78							
Magnetic Permeability (u')	150±15%/650±20%							
Magnetic Permeability (u'')	5/15 Max.							
Sheet	MQN Series Customized 							
	<table border="1"> <tr> <td>Nano Crystalline Thickness (mm)</td> <td>MQN 0.02</td> </tr> <tr> <td>Application Freq. (MHz)</td> <td>0.1~0.2</td> </tr> <tr> <td>Magnetic Permeability (u')</td> <td>500±10%~1000±20%</td> </tr> <tr> <td>Magnetic Permeability (u'')</td> <td>40/50/70/100</td> </tr> </table>	Nano Crystalline Thickness (mm)	MQN 0.02	Application Freq. (MHz)	0.1~0.2	Magnetic Permeability (u')	500±10%~1000±20%	Magnetic Permeability (u'')
Nano Crystalline Thickness (mm)	MQN 0.02							
Application Freq. (MHz)	0.1~0.2							
Magnetic Permeability (u')	500±10%~1000±20%							
Magnetic Permeability (u'')	40/50/70/100							









NFC PRODUCT

Sheet	FS/DC Series Customized 							
	<table border="1"> <tr> <td>Thickness (mm)</td> <td>FS/DC 0.04/0.06/0.08/0.10/0.12/0.14/0.19/0.30/0.40/0.50</td> </tr> <tr> <td>Application Freq. (MHz)</td> <td>13.56</td> </tr> <tr> <td>Magnetic Permeability (u')</td> <td>135/150/160</td> </tr> <tr> <td>Magnetic Permeability (u'')</td> <td>5</td> </tr> </table>	Thickness (mm)	FS/DC 0.04/0.06/0.08/0.10/0.12/0.14/0.19/0.30/0.40/0.50	Application Freq. (MHz)	13.56	Magnetic Permeability (u')	135/150/160	Magnetic Permeability (u'')
Thickness (mm)	FS/DC 0.04/0.06/0.08/0.10/0.12/0.14/0.19/0.30/0.40/0.50							
Application Freq. (MHz)	13.56							
Magnetic Permeability (u')	135/150/160							
Magnetic Permeability (u'')	5							
Antenna	MNFA-WFB Series Customized 							
	<table border="1"> <tr> <td>Thickness (mm)</td> <td>MNFA 0.12-0.3</td> </tr> <tr> <td>Application Freq. (MHz)</td> <td>13.56</td> </tr> </table>	Thickness (mm)	MNFA 0.12-0.3	Application Freq. (MHz)	13.56			
Thickness (mm)	MNFA 0.12-0.3							
Application Freq. (MHz)	13.56							




RF PRODUCT(LTCC Technology)

Multilayer Chip LC Filter	SLFB Series Band-pass										
		SLFB15	SLFB18	SLFB19	SLFB21	SLFB22	SLFB32				
	Center Freq. (MHz)	2450	1910-7245	2450	2450-5500	3600-4950	1400-4900				
Multilayer Chip Balun	SLBL Series Balun										
		SLBL06	SLBL15	SLBL18	SLBL21						
	Frequency Range (MHz)	698-2700	758-2025	699-6000	2400-8000						
Multilayer Chip Diplexer	SLFD Series Diplexer										
		SLFD15	SLFD18	SLFD21	SLFD22						
	Frequency Range (MHz)	2400-7125	698-7125	698-5950	698-5950						
Multilayer Chip Triplexer	SLFT Series Triplexer										
		SLFT21									
	Frequency Range (MHz)	1560-5950									
Multilayer Coupler	SLCP Series Coupler										
		SLCP06	SLCP18	SLCP21	SLCP31						
	Frequency Range (MHz)	2400-7125	2400-7125	700-8000	210-728						
Multilayer	SLDA Series 2.45GHz										
		SLDA15	SLDA18	SLDA31	SLDA52	SLDA62	SLDA72	SLDA81	SLDA92	SLDA106	SLDA154
	Center Freq. (GHz)	2.4-2.5	2.4-5.85	2.4~8.5	2.4~2.54	2.64	0.85-2.5	3.01	2.66	6.7	0.7-2.7
Band Width (MHz)	100	100-700	≥100	≥100	≥200	≥200	≥200	≥200	7200	≥100	
Peak Gain (dBi)	0.85	0.9	0.5~3.5	2.5	2.6	1.5-2.7	2.0	3.0	2.2	2	

RF PRODUCT

Ceramic Dielectric Filter	VFCF Series NEW for 5G Base Station							
		VFCF0830	VFCF1707	VFCF3117	VFCF3122	VFCF5322	VFCF8246	VFCF9776
	Frequency Range(MHz)	5150-5850	2515-3600	3300-3600	2515-2675	2515-2675	3300-3600	2300-2400
Ceramic Waveguide Duplexer	VFCD Series NEW for 5G Base Station							
		VFCD9370						
	Frequency Range(MHz)	1920-2170						

RF PRODUCT(Wire Wound)

Wire Wound Chip Balun Transformer	BW21S Series TV tuner			BW43S Series 
		BW21S	BW21C	
	Freq.Range (MHz)	45-2150	13.56	Inductance @50MHz (uH)
Port Impedance (Ω)	50/50-75/75	25/25	Port Impedance (Ω)	50/50