

ODownsizing and Lower ESR, 2,000hours at 105°C

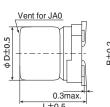
- Rated voltage range : 16 to 35V, Nominal capacitance range : 510 to 1,500µF
- Solvent resistant type(see PRECAUTIONS AND GUIDELINES)
- OVibration resistance structure
- RoHS2 Compliant
- OAEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

SPECIFICATIONS

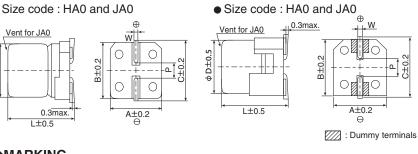
Items	Characteristics							
Category Temperature Range	-55 to +105℃							
Rated Voltage Range	16 to 35V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I=0.01CV or 3μA, whichever is greater.							
	Where, I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V) (at 20°C after 2 minutes)							
Dissipation Factor	Rated voltage (V _{dc})	16V	25V	35V				
(tan δ)	tan δ (Max.)	0.16	0.14	0.12	(at 20°C, 120Hz)			
Low Temperature	Rated voltage (V _{dc})	16V	25V	35V				
Characteristics	Z(-25°C)/Z(+20°C)	2	2	2				
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	3	3	3				
	Z(-55°C)/Z(+20°C)	4	3	3	(at 120Hz)			
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C.							
	Capacitance change	≦±;	30% of	the init	tial value			
	D.F. (tan δ)	≦20	0% of t	he initi	ial specified value			
	Leakage current	≦Th	e initia	l specif	fied value			
Shelf Life	The following specifications	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without						
	voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.							
	Capacitance change	≦±;	30% of	the init	tial value			
	D.F. (tan δ)	≦20	0% of t	he initi	ial specified value			
	Leakage current	≦Th	e initia	l specif	fied value			
Surge Voltage Test	The capacitors shall be subjected to 1,000 cycles each consisting of charging with the specified surge voltage for 30 ± 5 seconds through a protective resistor (as required for RC=0.1±0.05sec) and open-circuiting for 5.5 minutes at a room temperature of 15 to 35° C.							
	Rated voltage (V _{dc})	16	25	35				
	Surge voltage (Vdc)	18	29	40				
	Appearance	No s	ignifica	nt dam	nage			
	Capacitance change	≦±ź	20% of	the init	tial value			
	D.F. (tan δ)	≦200% of the initial specified value ≤The initial specified value		he initi	ial specified value			
	Leakage current							
	(Caution)							
	Surge Voltage Test intends to evaluate capacitors in durability of an exceptional excessive voltage under specific conditions. It does							
	not imply long-term use a	t all.						

DIMENSIONS [mm]

- Terminal Code : A
- Size code : HA0 and JA0



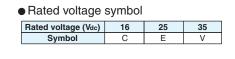
• Terminal Code : G(Vibration resistant structure)



Size code	D	L	Α	В	С	W	Р
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5

MARKING EX) 25V1,200µF





Applying voltage over the rated voltages causes the capacitors to have short lifetime. Besides, applying voltage over the specified surge voltages may cause to have short circuit failure. A protection circuit should be used if applied voltage will exceed the rated voltages.

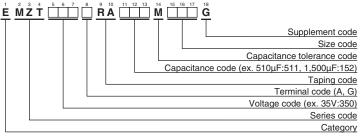
CAT. No. E1001X 2023







◆PART NUMBERING SYSTEM



Please refer to "Product code guide (surface mount type)"

♦STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size code	$\tan \delta$	ESR (Ω max./20℃, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part No.
16	820	HA0	0.16	0.08	850	EMZT160 RA821MHA0G
	1,500	JA0	0.16	0.06	1,190	EMZT160 RA152MJA0G
25	680	HA0	0.14	0.08	850	EMZT250 RA681 MHA0G
	1,200	JA0	0.14	0.06	1,190	EMZT250 RA122MJA0G
35	510	HA0	0.12	0.08	850	EMZT350 RA511MHA0G
	820	JA0	0.12	0.06	1,190	EMZT350 RA821MJA0G

 $\hfill\square$: Enter the appropriate terminal code.

♦RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
510	0.50	0.85	0.94	1.00
680 to 1,500	0.60	0.87	0.95	1.00

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
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- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.

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Part Numbering System Part Numbering System (Appendix) Standardization Available Items by Manufacturing Locations Environmental Measures Technical Note Precautions and Guidelines Recommended Soldering Conditions Taping, Lead-preforming and Packaging Available Terminals for Snap-in and Screw Mount Type