

- ODownsizing and Lower ESR, 2,000hours at 105℃
- Rated voltage range : 25, 35V, Nominal capacitance range : 330 to 1,000µF
- 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	25, 35V₀c							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)							
Dissipation Factor	Rated voltage (Vdc)	25V	35V					
$(\tan \delta)$	tan δ (Max.)	0.14	0.12		(at 20°C, 120Hz)			
Low Temperature	Rated voltage (V _{dc})	25V	35V					
Characteristics	Z(-25°C)/Z(+20°C)	2	2					
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	3	3					
	Z(-55°C)/Z(+20°C)	3	3		(at 120Hz)			
Endurance		ns shall	be sat	isfied when the capacitors a	re restored to 20°C after the rated voltage is applied for 2,000 hours			
	at 105℃.							
	Capacitance change			the initial value				
	D.F. (tan δ)			he initial specified value				
	Leakage current			specified value				
Shelf Life	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							
	<u> </u>				nditioned by applying voltage according to Item 4.1 of JIS C 5101-4.			
	Capacitance change			the initial value				
	D.F. (tan δ)			he initial specified value				
	Leakage current			specified 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							
		<u> </u>		=0.1±0.05sec) and open-circ	cuiting for 5.5 minutes at a room temperature of 15 to 35°C.			
	Rated voltage (V _{dc})	25	35					
	Surge voltage (V _{dc})	29	40					
	Appearance		<u> </u>	nt damage				
	Capacitance change			the initial value				
	D.F. (tan δ)			he initial specified value				
	Leakage current	≦Th	e initia	specified value				
	(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 : HA0 and JA0 ⊕ U_0.3max Æ W Vent for JA0 Vent for JA0 0 0 ¢ D±0.5 B±0.2 φ D±0.5 B±0.2 -0 0 Ο 0 L±0.5 A±0.2 0.3max. A±0.2 ⊖ θ L±0.5 : Dummy terminals

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



 Rated voltage symbol Rated voltage (Vdc) 25 35 Symbol V

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.

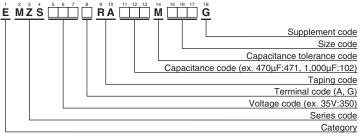
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◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (Vdc)	Cap (µF)	Size code	tan δ	ESR (Ω max./20℃, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part No.
25	470	HA0	0.14	0.08	850	EMZS250 RA471MHA0G
	560	HA0	0.14	0.08	850	EMZS250 RA561MHA0G
	820	JA0	0.14	0.06	1,190	EMZS250 RA821 MJA0G
	1,000	JA0	0.14	0.06	1,190	EMZS250 RA102MJA0G
35	330	HA0	0.12	0.08	850	EMZS350 RA331MHA0G
	410	HA0	0.12	0.08	850	EMZS350 RA411MHA0G
	470	HA0	0.12	0.08	850	EMZS350 RA471MHA0G
	560	JA0	0.12	0.06	1,190	EMZS350 RA561MJA0G
	680	JA0	0.12	0.06	1,190	EMZS350 RA681MJA0G

 \Box : Enter the appropriate terminal code.

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
330 to 560	0.50	0.85	0.94	1.00
680 to 1,000	0.60	0.87	0.95	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5° rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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