

- ODownsizing and Lower ESR, 2,000hours at 105℃
- Solvent resistant type(see PRECAUTIONS AND GUIDELINES)
- Vibration resistance structure
- RoHS2 Compliant
- AEC-Q200 compliant: Please contact Chemi-Con for more details, test data, information.

MZS Higher capacitance **MZR** Downsized MZJ



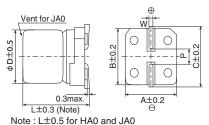
◆SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-55 to +105℃								
Rated Voltage Range	6.3 to 50V _{dc}								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current	I=0.01CV or 3µA, whichever is greater.								
	Where, I: Max. leakage of	current	(μA), C	: Nor	ninal ca	pacitar	nce (μF	r), V : Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V		
(tan δ)	tan δ (Max.)	0.26	0.19	0.16	0.14	0.12	0.10	(at 20℃, 120Hz)	
Low Temperature	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V		
Characteristics	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2		
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	3	3	3	3	3	3		
	Z(-55°C)/Z(+20°C)	4	4	4	3	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	Capacitance change ≤±30% of the initial value							
	D.F. $(\tan \delta)$.F. $(\tan \delta)$ $\leq 200\%$ of the initial specified value					alue		
	Leakage current	≦Th							
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 with 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 initial value								
	D.F. (tan δ)	≦200% of the initial specified value					alue		
	Leakage current	≦The initial 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 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})	6.3	10	16	25	35	50		
	Surge voltage (Vdc)	7.2	12	18	29	40	58		
	Appearance No significant damage								
	Capacitance change								
	D.F. (tan δ)	≦200% of the initial specified value				ified va	alue		
	Leakage current	≦The initial 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 at all.								

◆DIMENSIONS [mm]

Terminal Code : A

Size code: E61 to JA0



Terminal Code : G(Vibration resistant structure)

: Dummy terminals

Size code : F61 to JA0 Vent for JA0 L±0.3 (Note) Note: L±0.5 for HA0 and JA0

Size code D		L	Α	В	С	W	Р
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
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) 35V330µF



Rated voltage symbol

Rated voltage (Vdc)	6.3	10	16	25	35	50
Symbol	j	A	С	E	V	Н

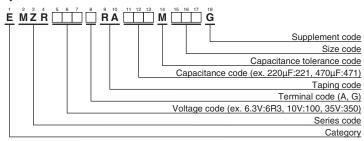
Applying voltage over the rated voltages causes the capacitors to have short lifetime.

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.



Alchip[™]-MZRSeries

◆PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	tan δ	ESR (Ω max./20℃, 100kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
	220	E61	0.26	0.36	240	EMZR6R3ARA221ME61G
33	330	F61	0.26	0.26	300	EMZR6R3□RA331MF61G
6.3	680	F80	0.26	0.16	600	EMZR6R3□RA681MF80G
	1,500	HA0	0.26	0.08	850	EMZR6R3□RA152MHA0G
	2,200	JA0	0.26	0.06	1,190	EMZR6R3□RA222MJA0G
	150	E61	0.19	0.36	240	EMZR100ARA151ME61G
	220	F61	0.19	0.26	300	EMZR100□RA221MF61G
10	470	F80	0.19	0.16	600	EMZR100□RA471MF80G
	1,000	HA0	0.19	0.08	850	EMZR100□RA102MHA0G
	1,500	JA0	0.19	0.06	1,190	EMZR100□RA152MJA0G
	100	E61	0.16	0.36	240	EMZR160ARA101ME61G
	220	F61	0.16	0.26	300	EMZR160□RA221MF61G
16	330	F80	0.16	0.16	600	EMZR160□RA331MF80G
	680	HA0	0.16	0.08	850	EMZR160□RA681MHA0G
	1,000		0.16	0.06	1,190	EMZR160□RA102MJA0G
	68	E61	0.14	0.36	240	EMZR250ARA680ME61G
	100	F61	0.14	0.26	300	EMZR250□RA101MF61G
25	220	F80	0.14	0.16	600	EMZR250□RA221MF80G
	470	HA0	0.14	0.08	850	EMZR250□RA471MHA0G
	820 JA0		0.14	0.06	1,190	EMZR250□RA821MJA0G
	47	E61	0.12	0.36	240	EMZR350ARA470ME61G
	100	F61	0.12	0.26	300	EMZR350□RA101MF61G
35	150	F80	0.12	0.16	600	EMZR350□RA151MF80G
	330	HA0	0.12	0.08	850	EMZR350□RA331MHA0G
	560	JA0	0.12	0.06	1,190	EMZR350□RA561MJA0G
	22	E61	0.10	0.88	165	EMZR500ARA220ME61G
	47	F61	0.10	0.68	195	EMZR500□RA470MF61G
50	100	F80	0.10	0.34	350	EMZR500□RA101MF80G
	220	HA0	0.10	0.18	670	EMZR500□RA221MHA0G
	330	JA0	0.10	0.12	900	EMZR500□RA331MJA0G

 $[\]square$: Enter the appropriate terminal code.

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	120	1k	10k	100k
Capacitance(µF)				
22 to 150	0.40	0.75	0.90	1.00
220 to 560	0.50	0.85	0.94	1.00
680 to 2,200	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.



- 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.
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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

单击下面可查看定价,库存,交付和生命周期等信息

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