

Alchip™-MZR Series

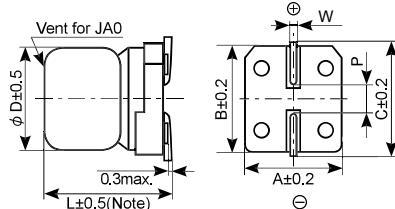
- Downsizing and Lower ESR, 2,000 hours at 105°C
- Rated voltage range : 6.3 to 50V, Nominal capacitance range : 150 to 2,200μF
- Solvent resistant type
- Vibration resistant structure
- RoHS Compliant

◆ SPECIFICATIONS

Items	Characteristics					
Category	-55 to +105°C					
Temperature Range	6.3 to 50Vdc					
Rated Voltage Range	±20% (M)					
Capacitance Tolerance	(at 20°C , 120Hz)					
Leakage Current	I=0.01CV or 3μA, which is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)					
Dissipation Factor (tan δ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V
	tan δ (Max.)	0.26	0.19	0.16	0.14	0.12
	50V					0.10
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V
	Z(-25°C)/Z(+20°C)	2	2	2	2	2
	Z(-40°C)/Z(+20°C)	3	3	3	3	3
	Z(-55°C)/Z(+20°C)	4	4	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 initial value				
	D.F. (tan δ)	≤ 200% of the initial specified value				
	Leakage current	≤ The initial 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 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				
	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 (Vdc)	6.3V	10V	16V	25V	35V
	Surge voltage (Vdc)	7.2V	12V	18V	29V	40V
						57V
	Appearance	No significant damage				
	Capacitance change	≤ ±20% of the initial value				
	D.F. (tan δ)	≤ 200% of the initial specified value				
	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.				

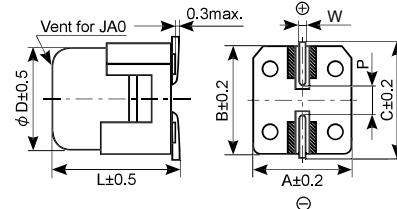
◆ DIMENSIONS [mm]

- Terminal Code : A
- Size code : F80 to JA0



- Terminal Code : G(Vibration resistant structure)

- Size code : HA0 to JA0



Size Code	D	L	A	B	C	W	P
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

: Dummy terminals

◆ MARKING

EX) 35V330μF

**● Rated voltage symbol**

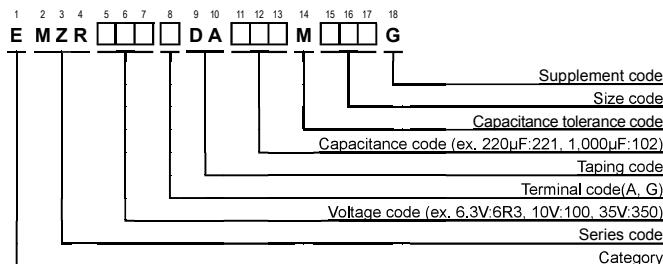
Rated voltage(Vdc)	6.3	10	16	25	35	50
Symbol	j	A	C	E	V	H

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.

Please contact us for mass production schedule.
Specifications in this bulletin are subject to change without notice.

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◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

WV (Vdc)	Cap (μ F)	Size code	$\tan \delta$	ESR ($\Omega_{max}/20^\circ C, 100kHz$)	Rated ripple current (mAmps/ $105^\circ C, 100kHz$)	Part No.
6.3	680	F80	0.26	0.16	600	EMZR6R3ADA681MF80G
	1,500	HA0	0.26	0.08	850	EMZR6R3□DA152MHA0G
	2,200	JA0	0.26	0.06	1,190	EMZR6R3□DA222MJA0G
10	470	F80	0.19	0.16	600	EMZR100ADA471MF80G
	1,000	HA0	0.19	0.08	850	EMZR100□DA102MHA0G
	1,500	JA0	0.19	0.06	1,190	EMZR100□DA152MJA0G
16	330	F80	0.16	0.16	600	EMZR160ADA331MF80G
	680	HA0	0.16	0.08	850	EMZR160□DA681MHA0G
	1,000	JA0	0.16	0.06	1,190	EMZR160□DA102MJA0G
25	220	F80	0.14	0.16	600	EMZR250ADA221MF80G
	470	HA0	0.14	0.08	850	EMZR250□DA471MHA0G
	820	JA0	0.14	0.06	1,190	EMZR250□DA821MJA0G
35	150	F80	0.12	0.16	600	EMZR350ADA151MF80G
	330	HA0	0.12	0.08	850	EMZR350□DA331MHA0G
	560	JA0	0.12	0.06	1,190	EMZR350□DA561MJA0G
50	220	HA0	0.10	0.18	670	EMZR500□DA221MHA0G
	330	JA0	0.10	0.12	900	EMZR500□DA331MJA0G

:Enter the appropriate terminal code.

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单击下面可查看定价，库存，交付和生命周期等信息

[>>NCC\(贵弥功\(黑金刚\)\)](#)