

New!

Alchip™-MZJ Series

- Lower ESR, 2,000 hours at 105°C
- Rated voltage range : 6.3 to 35V
- Nominal capacitance range : 10 to 1,800 μF
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

MZJ

↑ Lower ESR
MZA

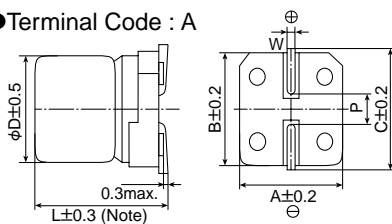


◆ SPECIFICATIONS

Items	Characteristics						
Category	-55 to +105°C						
Temperature Range	-55 to +105°C						
Rated Voltage Range	6.3 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 (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)						
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	(at 20°C, 120Hz)
	tanδ (Max.)	0.26	0.19	0.16	0.14	0.12	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	(at 120Hz)
	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	
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. (tanδ)	≤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. (tanδ)	≤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 (V _{dc})	6.3V	10V	16V	25V	35V	
	Surge voltage (V _{dc})	7.2V	12V	18V	29V	40V	
	Appearance	No significant damage					
	Capacitance change	≤±20% of the initial value					
	D.F. (tanδ)	≤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]

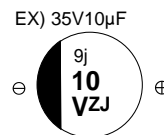
● Terminal Code : A



Size code	D	L	A	B	C	W	P
D61	4	5.8	4.3	4.3	5.1	0.5 to 0.8	1.0
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

Note : L±0.3 for HA0 and JA0

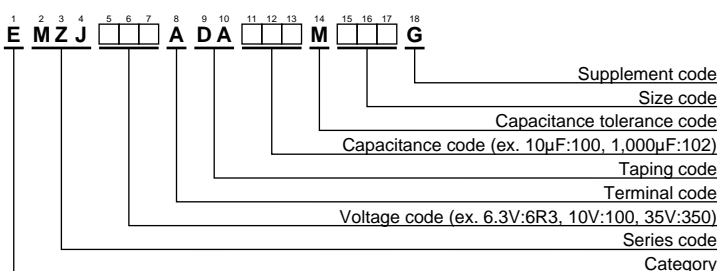
◆ MARKING



● Rated voltage symbol

Rated voltage (V _{dc})	Symbol
6.3	j
10	A
16	C
25	E
35	V

◆ PART NUMBERING SYSTEM



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

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.

◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Size code	tanδ	ESR (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.
6.3	47	D61	0.26	0.85	160	EMZJ6R3ADA470MD61G
	100	E61	0.26	0.36	240	EMZJ6R3ADA101ME61G
	220	F61	0.26	0.26	300	EMZJ6R3ADA221MF61G
	330	F80	0.26	0.16	600	EMZJ6R3ADA331MF80G
	1,000	HA0	0.26	0.08	850	EMZJ6R3ADA102MHA0G
	1,500	JA0	0.26	0.06	1,190	EMZJ6R3ADA152MJA0G
	1,800	JA0	0.26	0.06	1,190	EMZJ6R3ADA182MJA0G
10	33	D61	0.19	0.85	160	EMZJ100ADA330MD61G
	150	F61	0.19	0.26	300	EMZJ100ADA151MF61G
	680	HA0	0.19	0.08	850	EMZJ100ADA681MHA0G
	1,000	JA0	0.19	0.06	1,190	EMZJ100ADA102MJA0G
	1,200	JA0	0.19	0.06	1,190	EMZJ100ADA122MJA0G
16	22	D61	0.16	0.85	160	EMZJ160ADA220MD61G
	47	E61	0.16	0.36	240	EMZJ160ADA470ME61G
	100	F61	0.16	0.26	300	EMZJ160ADA101MF61G
	150	F80	0.16	0.16	600	EMZJ160ADA151MF80G
	220	F80	0.16	0.16	600	EMZJ160ADA221MF80G
	470	HA0	0.16	0.08	850	EMZJ160ADA471MHA0G
	680	JA0	0.16	0.06	1,190	EMZJ160ADA681MJA0G
	820	JA0	0.16	0.06	1,190	EMZJ160ADA821MJA0G
25	10	D61	0.14	0.85	160	EMZJ250ADA100MD61G
	22	E61	0.14	0.36	240	EMZJ250ADA220ME61G
	33	E61	0.14	0.36	240	EMZJ250ADA330ME61G
	33	F61	0.14	0.26	300	EMZJ250ADA330MF61G
	47	F61	0.14	0.26	300	EMZJ250ADA470MF61G
	68	F61	0.14	0.26	300	EMZJ250ADA680MF61G
	100	F80	0.14	0.16	600	EMZJ250ADA101MF80G
	330	HA0	0.14	0.08	850	EMZJ250ADA331MHA0G
	470	JA0	0.14	0.06	1,190	EMZJ250ADA471MJA0G
	560	JA0	0.14	0.06	1,190	EMZJ250ADA561MJA0G
35	10	D61	0.12	0.85	160	EMZJ350ADA100MD61G
	22	E61	0.12	0.36	240	EMZJ350ADA220ME61G
	33	F61	0.12	0.26	300	EMZJ350ADA330MF61G
	47	F61	0.12	0.26	300	EMZJ350ADA470MF61G
	68	F61	0.12	0.26	300	EMZJ350ADA680MF61G
	100	F80	0.12	0.16	600	EMZJ350ADA101MF80G
	100	HA0	0.12	0.08	850	EMZJ350ADA101MHA0G
	150	HA0	0.12	0.08	850	EMZJ350ADA151MHA0G
	220	HA0	0.12	0.08	850	EMZJ350ADA221MHA0G
	330	JA0	0.12	0.06	1,190	EMZJ350ADA331MJA0G
	390	JA0	0.12	0.06	1,190	EMZJ350ADA391MJA0G

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