

Alchip™-MZE Series

- Endurance : 7,000 to 8,000 hours at 105°C
- Low impedance
- Rated voltage range : 6.3 to 50V
- Nominal capacitance range : 10 to 470μF
- Suitable for long life and low profile products
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant

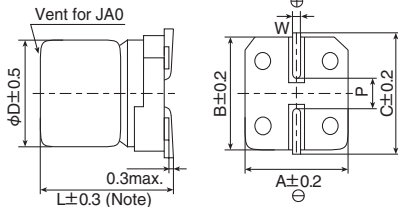


◆ SPECIFICATIONS

Items	Characteristics						
Category	-25 to +105°C						
Temperature Range	-25 to +105°C						
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 current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C, after 2 minutes)						
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V
	tan δ (Max.)	0.32	0.28	0.26	0.16	0.14	0.14
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage(V _{dc})	6.3V	10V	16V	25V	35V	50V
	Z(-10°C)/Z(+20°C)	4	3	2	2	2	2
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified time at 105°C.						
	Time	E73 & F73 : 7,000 hours F90 to JA0 : 8,000 hours					
	Capacitance change	≤ ±30% of the initial value					
	D.F. (tan δ)	≤300% 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)	≤300% of the initial specified value					
	Leakage current	≤The initial specified value					

◆ DIMENSIONS [mm]

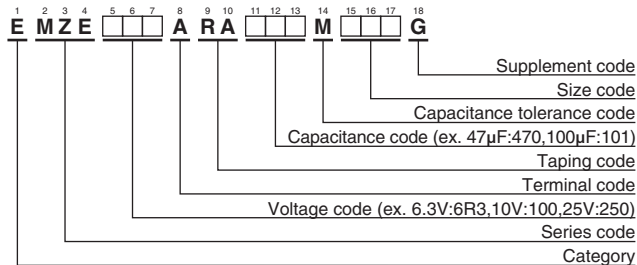
● Terminal Code : A



Note : L±0.5 for HA0 and JA0

Size code	D	L	A	B	C	W	P
E73	5	7.0	5.3	5.3	5.9	0.5 to 0.8	1.4
F73	6.3	7.0	6.6	6.6	7.2	0.5 to 0.8	1.9
F90	6.3	8.7	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

◆ PART NUMBERING SYSTEM



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

◆ MARKING

EX) 16V47μF



● Rated voltage symbol

Rated voltage (V _{dc})	6.3	10	16	25	35	50
Symbol	j	A	C	E	V	H

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◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.	WV (V _{dc})	Cap (μF)	Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
6.3	47	E73	2.2	95	EMZE6R3ARA470ME73G	25	33	F73	1.1	140	EMZE250ARA330MF73G
	100	F73	1.1	140	EMZE6R3ARA101MF73G		47	F73	1.1	140	EMZE250ARA470MF73G
	220	F90	1.0	230	EMZE6R3ARA221MF90G		100	F90	1.0	230	EMZE250ARA101MF90G
	330	F90	1.0	230	EMZE6R3ARA331MF90G		220	HA0	0.22	600	EMZE250ARA221MHA0G
	470	HA0	0.22	600	EMZE6R3ARA471MHA0G		330	JA0	0.16	850	EMZE250ARA331MJA0G
10	33	E73	2.2	95	EMZE100ARA330ME73G	35	10	E73	2.2	95	EMZE350ARA100ME73G
	150	F73	1.1	140	EMZE100ARA151MF73G		10	F73	1.1	140	EMZE350ARA100MF73G
16	22	E73	2.2	95	EMZE160ARA220ME73G		22	E73	2.2	95	EMZE350ARA220ME73G
	47	F73	1.1	140	EMZE160ARA470MF73G		22	F73	1.1	140	EMZE350ARA220MF73G
	100	F73	1.1	140	EMZE160ARA101MF73G		33	F90	1.0	230	EMZE350ARA330MF90G
	150	F90	1.0	230	EMZE160ARA151MF90G		47	F90	1.0	230	EMZE350ARA470MF90G
	220	F90	1.0	230	EMZE160ARA221MF90G		100	HA0	0.22	600	EMZE350ARA101MHA0G
	330	HA0	0.22	600	EMZE160ARA331MHA0G	220	JA0	0.16	850	EMZE350ARA221MJA0G	
470	JA0	0.16	850	EMZE160ARA471MJA0G	50	47	HA0	0.53	350	EMZE500ARA470MHA0G	
25	22	E73	2.2	95		EMZE250ARA220ME73G	100	JA0	0.35	670	EMZE500ARA101MJA0G

The products shown in are not recommended for new designs (NRND).

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF)	Frequency(Hz)			
	120	1k	10k	100k
10 to 150	0.40	0.75	0.90	1.00
220 to 470	0.50	0.85	0.94	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.