Alchip™-MZK Series

- Endurance : 5,000 hours at 105℃
- Low impedance
- Rated voltage range : 6.3 to 35V
- Nominal capacitance range : 10 to 150µF
- Suitable for low profile products
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

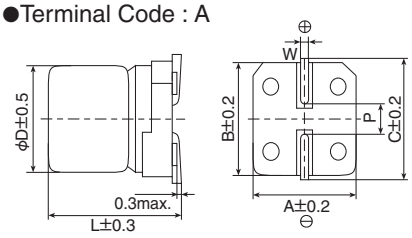
MVY P102 → Longer life → MZK

◆SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-25 to +105℃						
Rated Voltage Range	6.3 to 35Vdc						
Capacitance Tolerance	±20%(M)						(at 20℃,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℃, after 2 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	
	tan δ (Max.)	0.32	0.28	0.26	0.16	0.14	(at 20℃,120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage(Vdc)	6.3V	10V	16V	25V	35V	
	Z(-10℃)/Z(+20℃)	4	3	2	2	2	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 hours at 105℃.						
	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℃ after exposing them for 1,000 hours at 105℃ 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					

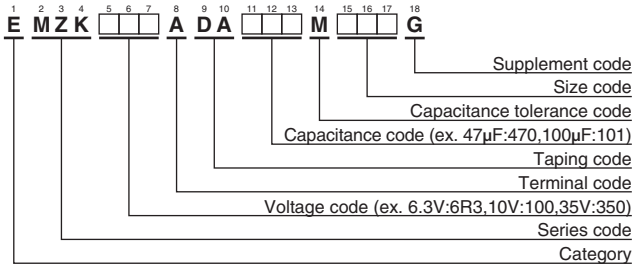
◆DIMENSIONS [mm]

●Terminal Code : A



Size code	D	L	A	B	C	W	P
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

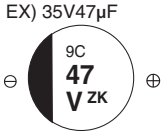
◆PART NUMBERING SYSTEM



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

◆MARKING

EX) 35V47µF



●Rated voltage symbol

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

Alchip™-MZK Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Size code	Impedance (Ω max./20℃, 100kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
6.3	100	E61	2.2	95	EMZK6R3ADA101ME61G
10	150	F61	1.1	140	EMZK100ADA151MF61G
16	33	E61	2.2	95	EMZK160ADA330ME61G
	47	E61	2.2	95	EMZK160ADA470ME61G
	100	F61	1.1	140	EMZK160ADA101MF61G
25	68	F61	1.1	140	EMZK250ADA680MF61G
35	10	E61	2.2	95	EMZK350ADA100ME61G
	10	F61	1.1	140	EMZK350ADA100MF61G
	22	E61	2.2	95	EMZK350ADA220ME61G
	22	F61	1.1	140	EMZK350ADA220MF61G
	33	F61	1.1	140	EMZK350ADA330MF61G
	47	F61	1.1	140	EMZK350ADA470MF61G

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	120	1k	10k	100k
6.3 to 35V_{dc}	0.40	0.75	0.90	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.