Alchip[™]-MZK_{Series}

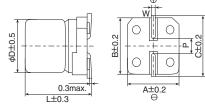
- ●Endurance : 5,000 hours at 105°C
- Low impedance
- Rated voltage range : 6.3 to 35V
- ${\small O}$ Nominal capacitance range : 10 to 150 μF
- Suitable for low profile products
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)

\$SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-25 to +105℃								
Rated Voltage Range	6.3 to 35V _{dc}								
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°C, after 2 minutes)								
Dissipation Factor	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V			
$(\tan \delta)$	tanδ (Max.)	0.32	0.28	0.26	0.16	0.14	(at 20°C,120Hz)		
Low Temperature	Rated voltage(Vdc)	6.3V	10V	16V	25V	35V			
Characteristics	Z(-10°C)/Z(+20°C)	4	3	2	2	2			
(Max. Impedance Ratio)							(at 120Hz)		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours at 105°C.								
	Capacitance change	≦±3	30% of	the init	tial valu	ie			
	D.F. (tan δ)	\leq 300% of the initial specified value					lue		
	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	≦±3	30% of	the init	tial valu	le			
	D.F. (tan δ)	≦30	0% of t	he initi	al spec	ified va	lue		
	Leakage current	≦Th	e initial	specif	ied val	ue			

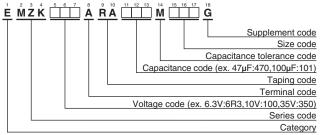
DIMENSIONS [mm]

•Terminal Code : A



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

◆PART NUMBERING SYSTEM



Symbol

MVY Longer life

MZK

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

MARKING



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.

 Rated voltage symbol 							
Rated voltage (Vdc)	6.3	10	16	25	Γ		

A C E V

35



♦STANDARD RATINGS

WV (Vdc)	Сар (µF)	Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
6.3	100	E61	2.2	95	EMZK6R3ARA101ME61G
10	150	F61	1.1	140	EMZK100ARA151MF61G
	33	E61	2.2	95	EMZK160ARA330ME61G
16	16 47	E61	2.2	95	EMZK160ARA470ME61G
	100	F61	1.1	140	EMZK160ARA101MF61G
25	68	F61	1.1	140	EMZK250ARA680MF61G
	10	E61	2.2	95	EMZK350ARA100ME61G
	10	F61	1.1	140	EMZK350ARA100MF61G
35	22	E61	2.2	95	EMZK350ARA220ME61G
35	22	F61	1.1	140	EMZK350ARA220MF61G
	33	F61	1.1	140	EMZK350ARA330MF61G
	47	F61	1.1	140	EMZK350ARA470MF61G

♦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°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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