



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

Long life, 105°C

Alchip® MVJ Series

- Endurance : 105°C 2000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

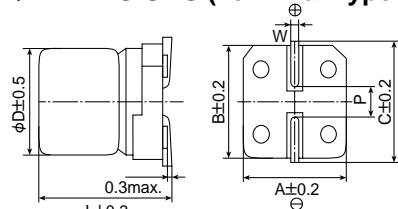
MVJ
longer life
MVK



◆SPECIFICATIONS

Items	Characteristics					
Category						
Temperature Range	-40 to +105°C					
Rated Voltage Range	6.3 to 50Vdc					
Capacitance Tolerance	$\pm 20\%$ (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 (Vdc)	6.3V	10V	16V	25V	35V
	tanδ (Max.)	0.30	0.24	0.20	0.16	0.14
						0.12
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V
	Z(-25°C)/Z(+20°C)	4	3	2	2	2
	Z(-40°C)/Z(+20°C)	12	8	6	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 2000 hours at 105°C.					
	Rated voltage	6.3Vdc		10 & 16Vdc		25 to 50Vdc
	Capacitance change	$\leq \pm 30\%$ of the initial value		$\leq \pm 25\%$ of the initial value		$\leq \pm 20\%$ of the initial value
	D.F. (tanδ)	$\leq 300\%$ of the initial specified value		$\leq 300\%$ of the initial specified value		$\leq 200\%$ of the initial specified value
	Leakage current	The initial specified value		\leq The initial specified value		\leq The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.					
	Rated voltage	6.3Vdc		10 & 16Vdc		25 to 50Vdc
	Capacitance change	$\leq \pm 30\%$ of the initial value		$\leq \pm 25\%$ of the initial value		$\leq \pm 20\%$ of the initial value
	D.F. (tanδ)	$\leq 300\%$ of the initial specified value		$\leq 300\%$ of the initial specified value		$\leq 200\%$ of the initial specified value
	Leakage current	\leq The initial specified value		\leq The initial specified value		\leq The initial specified value

◆DIMENSIONS (Terminal Type=VC) [mm]



Case code	D	L	A	B	C	W	P
D60	4	5.7	4.3	4.3	5.1	0.5 to 0.8	1.0
E60	5	5.7	5.3	5.3	5.9	0.5 to 0.8	1.4
F60	6.3	5.7	6.6	6.6	7.2	0.5 to 0.8	1.9

◆MARKING

EX) 6.3V100μF



◆PART NUMBERING SYSTEM

MVJ 16 VC 22 M E60

Case code	Capacitance	Code
Cap tolerance ($\pm 20\%$)	0.1μF	R1
Nominal cap code	1.0μF	1
Terminal type (VC)	4.7μF	4R7
Rated voltage in volts	10μF	10
Series name	100μF	100

◆STANDARD RATINGS

μF	Vdc	6.3	10	16	25	35	50
0.1							D60 1.3
0.22							D60 2.6
0.33							D60 3.2
0.47							D60 3.8
1.0							D60 5.6
2.2							D60 10
3.3							D60 14
4.7							E60 19
10				D60 16		E60 25	F60 29
22		D60 21		E60 30		F60 40	
33			E60 34		F60 45		
47				F60 48			
100		E60 56					

Note : → Use next higher voltage part.