

Alchip®-MF Series

- Wide variety of case sizes (7 sizes)
- Suitable to fit for downsized equipment
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

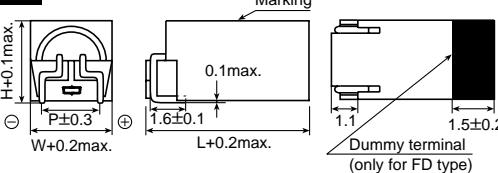
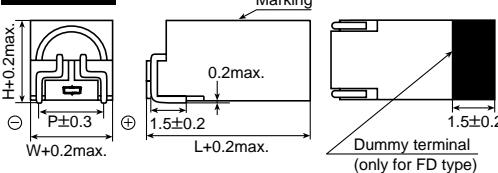
MF → MFK
105°C



◆SPECIFICATIONS

Items	Characteristics						
Category	$-40 \text{ to } +85^\circ\text{C}$						
Temperature Range	$4 \text{ to } 50\text{V}_{\text{dc}}$						
Rated Voltage Range	$\pm 20\%$ (M)						
Capacitance Tolerance	(at $20^\circ\text{C}, 120\text{Hz}$)						
Leakage Current	$I=0.01\text{CV} \text{ or } 3\mu\text{A}$, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)						
Dissipation Factor ($\tan\delta$)	(at 20°C after 2 minutes)						
Low Temperature Characteristics (Max. Impedance Ratio)	See STANDARD RATINGS. Rated voltage (V_{dc}) 4V 6.3V 10V 16V 25V 35V 50V Z(-25°C)/Z($+20^\circ\text{C}$) A6 10 7 5 4 3 2 2 B6 & C6 9 6 4 3 2 2 2 D6 to D13 7 4 3 2 2 2 2 Z(-40°C)/Z($+20^\circ\text{C}$) A6 18 13 10 8 6 5 5 B6 & C6 17 12 9 7 5 4 4 D6 to D13 15 10 8 6 4 3 3						
(at 120Hz)							
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 85°C .						
	Case code	A6	B6 & C6	D6 to D13			
	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. ($\tan\delta$)	$\leq 200\%$ of the initial specified value	$\leq 200\%$ 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			
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied.						
	Capacitance change	$\leq \pm 15\%$ of the initial value					
	D.F. ($\tan\delta$)	$\leq 150\%$ of the initial specified value					
	Leakage current	\leq The initial specified value					

◆DIMENSIONS (Terminal Type=FC or FD <dummy terminal>) [mm]

A6	B6 to D13	◆PART NUMBERING SYSTEM
		MF 6.3 FC 10 M B6
Case code		Case code
A6	6.3	Cap tolerance ($\pm 20\%$)
B6	6.3	Nominal cap code
C6	6.3	Terminal type (FC or FD)
D6	6.3	Rated voltage in volts
D8	8.3	Series name
D10	10.3	
D13	13.3	
		Capacitance Code
		0.1μF R1
		0.47μF R47
		1.0μF 1
		4.7μF 4R7
		10μF 10
		100μF 100

◆STANDARD RATINGS

μF	V _{dc}	4	6.3	10	16	25	35	50
		A6	B6	C6	D6	E6	F6	G6
0.1								
0.22								
0.33								
0.47								
1.0								
1.5								
2.2								
3.3								
4.7								
6.8								
10								
15								
22								
33								
47								
68								
100								
150								

Note : → Use next higher voltage part.