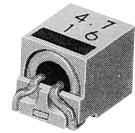


Alchip[®] MF-BP Series

- 3.5 to 4.5mm height
- Bi-polarized chip type for the circuit, of which polarity is frequently reversed
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)

MF-BP

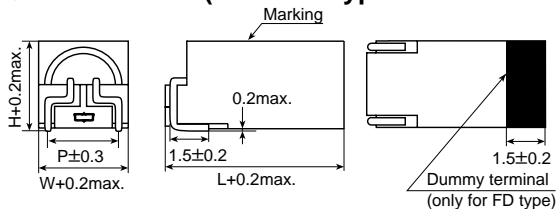
↑ bi-polarized
MF



◆ SPECIFICATIONS

Items	Characteristics									
Category	-40 to +85°C									
Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 50V _{dc}									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	I = 0.05CV or 10μA, whichever is greater. (at 20°C after 2 minutes) Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)									
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	(at 20°C, 120Hz)	
	tanδ (Max.)	B6 & C6	0.50	0.35	0.30	0.26	0.24	0.22		0.22
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	(at 120Hz)	
	Z(-25°C)/Z(+20°C)	B6 & C6	9	6	4	3	2	2		2
		D6 & D8	7	4	3	2	2	2		2
	Z(-40°C)/Z(+20°C)	B6 & C6	17	12	9	7	5	4		4
		D6 & D8	15	10	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 85°C, however the polarization shall be reversed every 250 hours.									
	Case code	B6 & C6			D6 & D8					
	Capacitance change	≤±25% of the initial value			≤±20% of the initial value					
	D.F. (tanδ)	≤200% of the initial specified value			≤200% of the initial specified value					
	Leakage current	≤The initial specified value			≤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	≤±15% of the initial value								
	D.F. (tanδ)	≤150% of the initial specified value								
	Leakage current	≤The initial specified value								

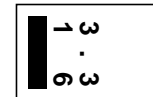
◆ DIMENSIONS (Terminal Type=FC or FD <dummy terminal>) [mm]



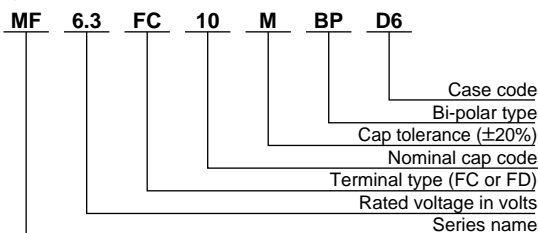
Case code	L	W	H	P
B6	6.3	3.6	3.5	3.0
C6	6.3	4.1	4.0	3.5
D6	6.3	4.6	4.5	4.0
D8	8.3	4.6	4.5	4.0

◆ MARKING

EX) 16V3.3μF



◆ PART NUMBERING SYSTEM



Capacitance	Code
0.1μF	R1
0.47μF	R47
1.0μF	1
4.7μF	4R7
10μF	10

◆ STANDARD RATINGS

μF \ V _{dc}	4	6.3	10	16	25	35	50
0.1							B6 1.3
0.22							B6 2.3
0.33							B6 2.8
0.47							B6 3.3
1.0							
2.2							
3.3							
4.7							
10	C6 9.5	D6 14	D8 16				
22	D8 19						
Case code Rated ripple current (mA _{rms}) at 85°C, 120Hz							
	B6 6.2	B6 6.9	C6 9.0	B6 6.1	C6 7.0	B6 4.6	C6 5.3
	B6 7.4			C6 8.2	D6 10	D8 9.1	D8 10
				D6 12	D8 13		