

MC Series

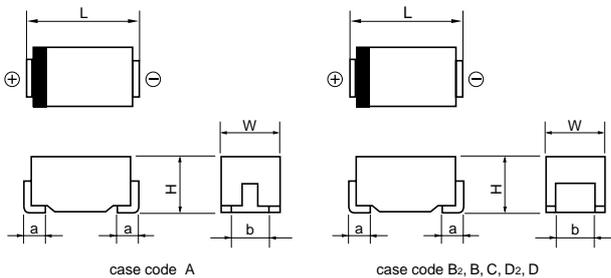
- Resin molded chip type
- Vital for all hybrid integrated circuits and low-profile printed circuit board application
- Suitable for high speed pulse and noise limiter
- Suitable for flow and reflow soldering methods
- Adapted resin passed UL94, V-0



◆ SPECIFICATIONS

Items	Requirements	Test Conditions
Category		
temperature range	-55 to +125°C(+85°C max. without voltage derating)	
Rated Voltage range	4 to 35V _{dc}	
Rated Capacitance range	0.33 to 68μF	
Rated Capacitance tolerance	±20%(M), ±10%(K)	
Leakage current (L.C.)	I ≤ 0.01CV or 0.5(μA) Whichever is greater. I : Leakage current (μA), C : Rated Capacitance (μF), V : Rated voltage (V _{dc})	Refer JIS C 5102. 7.7 . After 5 minutes of applying rated voltage at 20°C
Dissipation factor (tanδ)	4% max. (C ≤ 4.7μF) 6% max. (C ≤ 6.8 to 68μF)	Refer JIS C 5102. 7.9 . f=120Hz, 20°C
Characteristics at high and Low temperature	Temperature (°C)	- 55 +85 +125
	Cap. change(%)	≤±10 ≤±10 ≤±15
	D.F. (%) max.	C ≤ 4.7μF 6 4 4
	Leakage current (μA) max.	C = 6.8 to 68μF 8 6 6
		≤0.1CV or 5(μA) ≤0.125CV or 6.25(μA) Whichever is greater. Whichever is greater.
Damp heat, steady state	Cap. change	less than ±5%
	D.F.	Shall not exceed the value in Dissipation factor
	Leakage current	Shall not exceed the value in Leakage current
Surge	Cap. change	less than ±5%
	D.F.	Shall not exceed the value in Dissipation factor
	Leakage current	Shall not exceed the value in Leakage current
Rated ripple voltage	See Rated ripple voltage page, please.	
Resistance to soldering heat	Cap. change	less than ±5%
	D.F.	Shall not exceed the value in Dissipation factor
	Leakage current	Shall not exceed the value in Leakage current
Endurance	Cap. change	less than ±10%
	D.F.	Shall not exceed the value in Dissipation factor
	Leakage current	Shall not exceed the value in Leakage current
Failure rate	1%/1000h	85°C, Rated voltage, 1Ω/V (power source impedance)
Standard	JIS C 5143 characteristics SB	

◆ DIMENSIONS



Unit : mm

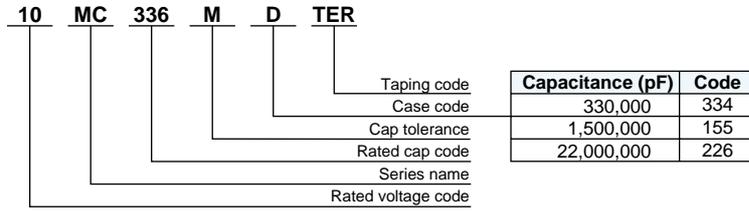
Case code	L	W	H	a	b
A	3.2±0.2	1.6±0.2	1.6±0.2	0.8±0.3	1.2±0.2
B ₂	3.5±0.2	2.8±0.2	1.9±0.2	0.8±0.3	2.2±0.2
B	4.7±0.2	2.6±0.2	1.8±0.2	0.9±0.3	1.8±0.2
C	6.0±0.2	3.2±0.2	2.5±0.2	1.3±0.3	2.2±0.2
D ₂	5.8±0.2	4.6±0.2	3.2±0.2	1.3±0.3	2.4±0.2
D	7.3±0.2	4.3±0.2	2.8±0.2	1.3±0.2	2.4±0.2



CHIP TYPE TANTALUM SOLID ELECTROLYTIC CAPACITORS

MCSeries

◆PART NUMBERING SYSTEM



●Rated voltage code table

Rated voltage(V _{dc})	2.5	4	6.3	10	16	20	25	35
code	2R5	4	6	10	16	20	25	35

◆STANDARD RATINGS

μF \ V _{dc}	4	6.3	10	16	20	25	35
0.33 (334)						A	
0.47 (474)					A	A	
0.68 (684)				A	A		
1.0 (105)			A	A			B, B2
1.5 (155)		A	A			B, B2	C
2.2 (225)	A	A		B	B, B2		C
3.3 (335)	A		B	B, B2		C	C, D, D2
4.7 (475)		B	B, B2		C	C	D, D2
6.8 (685)	B	B, B2		C	C	D, D2	D, D2
10.0 (106)	B, B2		C	C	D, D2	D, D2	
15.0 (156)		C	C	D, D2	D, D2		
22.0 (226)	C	C	D, D2	D, D2			
33.0 (336)	C	D, D2	D, D2				
47.0 (476)		D, D2					
68.0 (686)	D, D2						