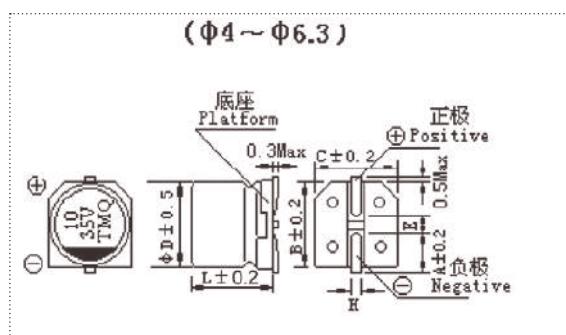


MVT  
Series**FEATURES**

- Operating over wide temperature range
- Reflow soldering is available
- Available for high density surface mounting
- High stability and reliability

**SPECIFICATIONS**

Item	Performance Characteristics						
Operating Temperature Range	-55 to +105°C						
Rated Working Voltage Range	6.3 to 50V						
Nominal Capacitance Range	0.1 to 220μF						
Capacitance Tolerance	±20% at 120Hz, +20°C						
Leakage Current	I ≤ 0.01CV or 3(μA) whichever is greater measure after 2 minutes application of rated working voltage at +20°C						
tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50
	tan δ	0.26	0.20	0.16	0.14	0.12	0.12
Low Temperature Characteristics	Impedance ratio max. at 120Hz						
	Working Voltage (V)	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	4	3	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3
High Temperature Loading	Test time	: 1,000 hours					
	Test temperature	: +105°C					
	Test conditions	: Rated DC working voltage					
		Post test requirements at +20°C					
Shelf Life	Leakage current	: ≤Initial specified value					
	Cap. change	: within ±20% of the initial measured value					
	tan δ	: ≤200% of the initial specified value					
	At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits						
Industrial Standard	Leakage current	: ≤200% of the initial specified value					
	Cap. change	: within ±20% of the initial measured value					
	tan δ	: ≤200% of the initial specified value					
	JIS C – 5101-4 (IEC 60384-4)						

**DIMENSIONS & MARKING**

Size	Φ4 x 5.4	Φ5 x 5.4	Φ6.3 x 5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.4	5.4	5.4
H	0.5 ~ 0.9		

**PART NUMBER SYSTEM (EXAMPLE: 16V 100μF)**

1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	T1	107	M	1C	E	54	TR

Type (Taping)  
Case Length (5.4mm)  
Diameter (6.3mm)  
Voltage (16V)  
Tolerance (±20%)  
Capacitance (100μF)  
Series  
V-CHIP



MVT

Series

## STANDARD RATINGS

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap. (μF)	Code	Case Size	Ripple Current						
4.7	475					4 x 5.4	12	4 x 5.4	13
10	106					4 x 5.4	20	4 x 5.4	14
22	226	4 x 5.4	20	4 x 5.4 5 x 5.4	21 27	4 x 5.4 5 x 5.4	22 31	5 x 5.4	25 36
33	336	4 x 5.4 5 x 5.4	22 27	4 x 5.4 5 x 5.4	23 34	5 x 5.4 6.3 x 5.4	28 40	5 x 5.4 6.3 x 5.4	29 44
47	476	4 x 5.4 5 x 5.4	25 37	5 x 5.4 6.3 x 5.4	30 41	5 x 5.4 6.3 x 5.4	31 56	6.3 x 5.4	48
100	107	5 x 5.4 6.3 x 5.4	39 57	6.3 x 5.4	53	6.3 x 5.4	75		
220	227	6.3 x 5.4	67						

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size  $\phi$  D x L (mm)

Voltage (Code)		35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Case Size
0.1	104			4 x 5.4			1.0
0.22	224			4 x 5.4			2.0
0.33	334			4 x 5.4			3.0
0.47	474			4 x 5.4			4.0
1	105			4 x 5.4			8.0
2.2	225			4 x 5.4			11
3.3	335			4 x 5.4			13
4.7	475	4 x 5.4	14	5 x 5.4			18
10	106	5 x 5.4	24	6.3 x 5.4			28
22	226	5 x 5.4 6.3 x 5.4	27 40	6.3 x 5.4			42
33	336	6.3 x 5.4	50				

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size  $\phi$  D x L (mm)