

VT1 Series

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



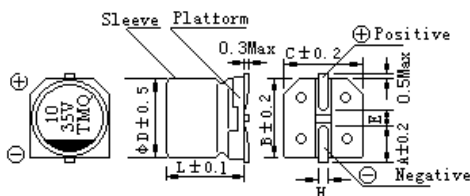
Specifications

Operating Temperature Range	-55~+105℃						
Rated Voltage Range	6.3~50V DC						
Nominal Capacitance Range	0.1~220uF						
Capacitance Tolerance	+/-20% (120Hz, 20℃)						
Leakage Current (20℃)	$I \leq 0.01C_R U_R (\mu A)$ or 3uA, Whichever is greater (After 2 minutes)						
Dissipation Factor (120Hz 20℃)	$U_R(V)$	6.3	10	16	25	35	50
	tg δ	0.26	0.20	0.16	0.14	0.12	0.12
Temperature Characteristics Impedance Ratio (120Hz)	$U_R(V)$	6.3	10	16	25	35	50
	$Z_{-25^\circ C} / Z_{+20^\circ C}$	4	3	2	2	2	2
	$Z_{-40^\circ C} / Z_{+20^\circ C}$	8	6	4	4	3	3
Load Life	After applying rated voltage for 1000 hours at +105℃ and then resumed 16 hours. The capacitor shall meet the following limits.						
	Capacitance Change	$\leq \pm 20\%$ of Initial measured value					
	Leakage	\leq Initial specified value					
	Dissipation Factor	$\leq 200\%$ of Initial specified value					
Shelf Life	After storage for 1000 hours at +105℃ and then resumed 16 hours, the capacitor shall meet the following limits.						
	Capacitance Change	$\leq \pm 20\%$ of Initial measured value					
	Leakage	$\leq 200\%$ of Initial specified value					
	Dissipation Factor	$\leq 200\%$ of Initial specified value					
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.						
	Capacitance Change	$\leq \pm 10\%$ of Initial measured value					
	Leakage	\leq Initial specified value					

Dimensions & Marking

mm

($\Phi 4 \sim \Phi 6.3$)



	$\phi 4 \times 5.4$	$\phi 5 \times 5.4$	$\phi 6.3 \times 5.4$
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	0.5~0.8		

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■ Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

uF \ WV	6.3		10		16		25		35		50	
	DXL mm	1~	DXL mm	1~	DXL mm	1~	DXL mm	1~	DXL mm	1~	DXL mm	1~
0.1											4X5.4	1.0
0.22											4X5.4	2.0
0.33											4X5.4	3.0
0.47											4X5.4	4.0
1.0											4X5.4	8.0
2.2											4X5.4	11
3.3											4X5.4	13
4.7					4X5.4	12	4X5.4	13	4X5.4	14	5X5.4	18
10					4X5.4	20	4X5.4 5X5.4	14 20	5X5.4	24	6.3X5.4	28
22	4X5.4	20	4X5.4 5X5.4	21 27	4X5.4 5X5.4	22 31	5X5.4 6.3X5.4	25 36	5X5.4 6.3X5.4	27 40	6.3X5.4	42
33	4X5.4 5X5.4	22 27	4X5.4 5X5.4	23 34	5X5.4 6.3X5.4	28 40	5X5.4 6.3X5.4	29 44	6.3X5.4	50		
47	4X5.4 5X5.4	25 37	5X5.4 6.3X5.4	30 41	5X5.4 6.3X5.4	31 56	6.3X5.4	48				
100	5X5.4 6.3X5.4	39 57	6.3X5.4	53	6.3X5.4	75						
220	6.3X5.4	67										

I~ Rated Ripple Current : (mA , 105°C , 120Hz)

The Sizes in Red are Smaller Specs

■ Frequency Coefficient of Rated Ripple Current

Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.70	1.00	1.17	1.36	1.50