VT Series

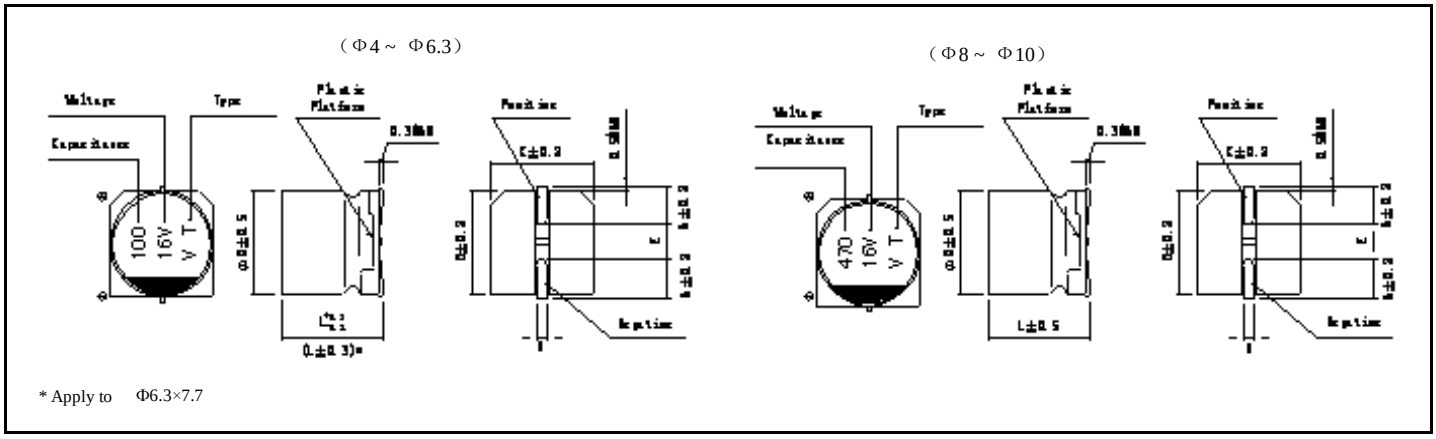
Features

- Case diameter: Φ 4mm～Φ 10mm，1000 hours at 105°C.
- Chip Type Aluminum Electrolytic Capacitors .
- Reflow soldering is available .
- Available for high density surface mounting .
- RoHS Compliant .

Specifications

Item	Performance Characteristics							
Temperature Range	-40℃ ~ +105℃							
Rated Voltage Range	4V ~ 50Vdc							
Capacitance Range	1.0 ~ 1000Mf							
Capacitance Tolerance	±20%（20℃，120Hz）							
Leakage Current **（+20℃,max.）**	I≤0.01$C_R U_R$ or 3(μA) Whichever is greater(at 20℃,After 2 minutes) C_R: Nominal Capacitance (μF)　　U_R: Rated voltages (V)							
Dissipation Factor (Max) **（tgδ）20℃, 120Hz**	U_R (V)	4	6.3	10	16	25	35	50
	tgδ	0.35	0.28	0.24	0.20	0.16	0.14	0.12
Endurance	After 1000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement:							
	Capacitance Change	Within ±20% of the initial value (≤16V: within ±25% of the initial value)						
	Dissipation Factor	Not more than 300% of the initial specified value						
	Leakage Current	Not more than the initial specified value						
Shelf Life	After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life above							
Low Temperature Stability Impedance Ratio (120Hz)	U_R (V)	4	6.3	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	7	4	3	2	2	2	2
	Z(-40℃)/Z(+20℃)	15	8	6	4	4	3	3
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, they meet the following requirement.							
	Capacitance Change	Within ±10% of the initial value						
	Dissipation Factor	Not more than the initial specified value						
	Leakage Current	Not more than the initial specified value						

Diagram of Dimensions



(mm)

	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7	8 × 10.5	10 × 10.5
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10.5	10.5
H	0.5 ~ 0.8				0.8 ~ 1.1	

Nominal capacitance, rated voltage, rated ripple current and case size table

Voltage	4		6.3		10		16		25		35		50	
Cap(μF)	Case Size	I~ mA	Case Size	I~ mA	Case Size	I~ mA	Case Size	I~ mA	Case Size	I~ mA	Case Size	I~ mA	Case Size	I~ mA
1.0													4×5.4	4
2.2													4×5.4	11
3.3											4×5.4	13	4×5.4	13
4.7									4×5.4	13	4×5.4	14	5×5.4	16
10							4×5.4	18	5×5.4	20	5×5.4	21	6.3×5.4	24
22			4×5.4	22	5×5.4	25	5×5.4	37	6.3×5.4	36	6.3×5.4	38	6.3×7.7	51
33	4×5.4	18	5×5.4	27	5×5.4	30	6.3×5.4	40	6.3×5.4	44	6.3×5.4	42	6.3×7.7	60
47	4×5.4	23	5×5.4	33	6.3×5.4	41	6.3×5.4	48	6.3×5.4	48	6.3×7.7	49	6.3×7.7	63
100	5×5.4	42	6.3×5.4	50	6.3×5.4	53	6.3×5.4	60	6.3×7.7	91	8×10.5	155	8×10.5	155
220	6.3×5.4	68	6.3×7.7	105	6.3×7.7	105	6.3×7.7	105	8×10.5	175	10×10.5	300		
330	6.3×7.7	73	6.3×7.7	105	8×10.5	175	8×10.5	195	10×10.5	220				
470	6.3×7.7	105	8×10.5	170	8×10.5	210	8×10.5	310						
680	8×10.5	210	8×10.5	210	10×10.5	230	10×10.5	350						
1000	8×10.5	260	10×10.5	230										

Max Allowable Ripple Current (mA, rms) at 105℃ 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices .

Frequency coefficient of ripple current

Frequency	50Hz	120Hz	300Hz	1KHz	10K~100Hz
Coefficient	0.70	1.00	1.17	1.36	1.50

Series VT is as same as the RVT Series.