

VT series

- Endurance: +125°C 2,000 hours
- High Temperature Resistance
- Recommended Applications: Lamps Power, LED Power, Service Equipment
- RoHS Compliant and lead-free

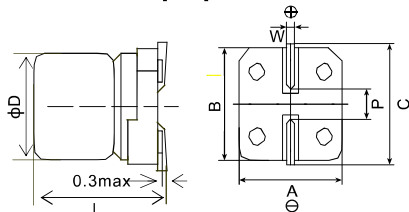


SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55~+125°C	
Rated Working Voltage Range	2.5~63 V _{dc}	
Nominal Capacitance Range	22~2200μF	
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)	
DC Leakage Current	LC=0.2CV when LC≤500, LC=500 (at 20°C after 2 minutes) Where, L:Max.leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V)	
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	2.5 6.3 10 16 25 35 50 63
	tanδ (max.)	0.08 0.12 (at 20°C, 120Hz)
ESR(100kHz, 20°C)	Value in characteristics table	
Temperature Characteristic (Impedance Ratio at 100kHz)	Z(+125°C)/Z(+20°C)≤1.25 Z(-55°C)/Z(+20°C)≤1.25	
Endurance	After applying rated voltage for 2,000 hours at 125°C, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤±20% of the initial value
	D.F. (tanδ)	≤150% of the initial specified value
	ESR	≤150% of the initial specified value
Humidity Test	After subjecting to 90%~95% RH for 2,000 hours at 60°C without voltage applied, the capacitors shall meet the specified values for the endurance characteristics listed above.	
	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤±20% of the initial value
	D.F. (tanδ)	≤150% of the initial specified value
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤±20% of the initial value
	D.F. (tanδ)	≤150% of the initial specified value
	ESR	≤150% of the initial specified value
Leakage Current	≤The initial specified value	

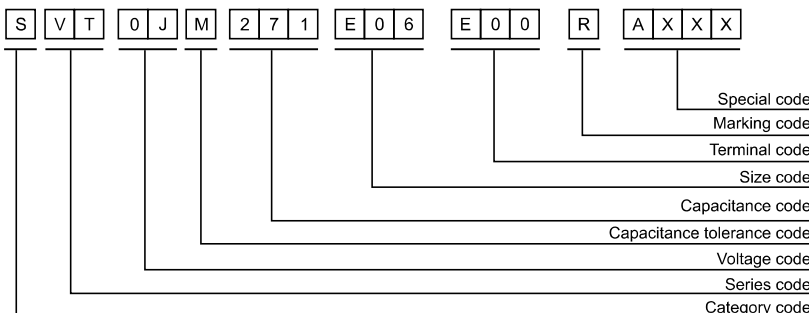
*Note: If any doubt arises, measure the leakage current after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS[mm]



Size Code	6.3	8	10
P±0.2	1.9	3.1	4.5
A±0.2	6.6	8.3	10.3
B±0.2	6.6	8.3	10.3
C±0.2	7.2	9.0	11.0
W	0.5~0.8	0.7~1.1	0.7~1.1
ØD'	ØD -0.1~+0.5		
L'	L±0.5	L±0.3	

PART NUMBERING SYSTEM



Conductive Polymer SMD Type

VT series

■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦDxL(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mA rms/125°C, 100kHz)	Leakage Current (μA) (max.)	Part Number
2.5 (2.9)	220	6.3×4.5	30	800	500	SVT0EM221E4RE00RAXXX
	330	6.3×4.5	27	100	500	SVT0EM331E4RE00RAXXX
		6.3×6	30	800	500	SVT0EM331E06E00RAXXX
	390	6.3×6	30	800	500	SVT0EM391E06E00RAXXX
	470	6.3×6	30	800	500	SVT0EM471E06E00RAXXX
	560	6.3×6	30	900	500	SVT0EM561E06E00RAXXX
	680	6.3×9	22	1200	500	SVT0EM681E09E00RAXXX
6.3 (7.2)	220	6.3×4.5	30	800	500	SVT0JM221E4RE00RAXXX
		6.3×6	30	800	500	SVT0JM221E06E00RAXXX
	270	6.3×6	30	900	500	SVT0JM271E06E00RAXXX
	330	6.3×6	30	900	500	SVT0JM331E06E00RAXXX
	470	6.3×9	22	1000	592	SVT0JM471E09E00RAXXX
	560	6.3×9	22	1100	706	SVT0JM561E09E00RAXXX
	1000	8×11.5	22	1200	1260	SVT0JM102FBRE00RAXXX
	1500	8×11.5	22	1300	1890	SVT0JM152FBRE00RAXXX
	2200	10×12.5	22	1600	2772	SVT0JM222GCRE00RAXXX
10 (11.5)	120	6.3×6	45	800	500	SVT1AM121E06E00RAXXX
		6.3×6	45	800	500	SVT1AM221E06E00RAXXX
		6.3×9	30	900	500	SVT1AM221E09E00RAXXX
	330	6.3×9	30	900	660	SVT1AM331E09E00RAXXX
	560	8×11.5	30	1000	1120	SVT1AM561FBRE00RAXXX
		10×12.5	30	1500	1120	SVT1AM561GCRE00RAXXX
	1000	8×11.5	22	1200	2000	SVT1AM102FBRE00RAXXX
	10×12.5	22	1300	2000	SVT1AM102GCRE00RAXXX	
	1500	10×12.5	22	1300	3000	SVT1AM152GCRE00RAXXX
16 (18.4)	47	6.3×6	60	500	500	SVT1CM470E06E00RAXXX
	68	6.3×6	60	600	500	SVT1CM680E06E00RAXXX
	100	6.3×6	45	700	500	SVT1CM101E06E00RAXXX
	150	6.3×6	45	700	500	SVT1CM151E06E00RAXXX
		6.3×9	37	700	500	SVT1CM151E09E00RAXXX
	180	6.3×6	90	700	576	SVT1CM181E06E00RAXXX
		6.3×9	37	800	576	SVT1CM181E09E00RAXXX
	220	6.3×9	37	700	704	SVT1CM221E09E00RAXXX
	270	6.3×9	37	700	864	SVT1CM271E09E00RAXXX
	560	8×11.5	30	1000	1792	SVT1CM561FBRE00RAXXX
	680	10×12.5	30	1200	2176	SVT1CM681GCRE00RAXXX
1000	10×12.5	30	1200	3200	SVT1CM102GCRE00RAXXX	
25 (28.8)	27	6.3×6	75	300	500	SVT1EM270E06E00RAXXX
	47	6.3×6	75	500	500	SVT1EM470E06E00RAXXX
		6.3×9	52	600	500	SVT1EM470E09E00RAXXX
	56	6.3×6	75	500	500	SVT1EM560E06E00RAXXX
	68	6.3×4.5	90	300	500	SVT1EM680E4RE00RAXXX
	100	6.3×6	75	600	500	SVT1EM101E06E00RAXXX
		6.3×9	45	700	500	SVT1EM101E09E00RAXXX
	150	6.3×9	45	700	750	SVT1EM151E09E00RAXXX
	220	8×11.5	45	700	1100	SVT1EM221FBRE00RAXXX
	330	8×11.5	45	800	1650	SVT1EM331FBRE00RAXXX
	470	10×12.5	33	800	1650	SVT1EM331GCRE00RAXXX
	10×12.5	33	900	2350	SVT1EM471GCRE00RAXXX	
35 (40.3)	22	6.3×6	90	300	500	SVT1VM220E06E00RAXXX
	27	6.3×6	90	300	500	SVT1VM270E06E00RAXXX
	33	6.3×6	90	300	500	SVT1VM330E06E00RAXXX
	47	6.3×6	67	300	500	SVT1VM470E06E00RAXXX
		6.3×9	75	400	500	SVT1VM470E09E00RAXXX
	68	6.3×9	60	500	500	SVT1VM680E09E00RAXXX
	100	6.3×9	60	600	700	SVT1VM101E09E00RAXXX
		8×11.5	45	900	700	SVT1VM101FBRE00RAXXX
	150	8×11.5	45	900	1050	SVT1VM151FBRE00RAXXX
	220	8×11.5	45	700	1540	SVT1VM221FBRE00RAXXX
	270	8×11.5	45	700	1890	SVT1VM271FBRE00RAXXX
	10×12.5	45	800	1890	SVT1VM271GCRE00RAXXX	
	330	10×12.5	45	800	2310	SVT1VM331GCRE00RAXXX
	470	10×12.5	45	900	3290	SVT1VM471GCRE00RAXXX
50 (57.5)	22	6.3×6	120	240	500	SVT1HM220E06E00RAXXX
	33	6.3×6	120	250	500	SVT1HM330E06E00RAXXX
	47	6.3×9	90	400	500	SVT1HM470E09E00RAXXX
	82	10×12.5	45	600	820	SVT1HM820GCRE00RAXXX
	100	8×11.5	45	600	1000	SVT1HM101FBRE00RAXXX
	120	8×11.5	45	600	1200	SVT1HM121FBRE00RAXXX
	220	10×12.5	45	600	2200	SVT1HM221GCRE00RAXXX
63 (72.5)	22	6.3×6	120	130	500	SVT1JM220E06E00RAXXX
	33	6.3×9	90	150	500	SVT1JM330E09E00RAXXX
	56	8×11.5	60	400	706	SVT1JM560FBRE00RAXXX
	100	10×12.5	60	400	1260	SVT1JM101GCRE00RAXXX