VT Series

性能特点 Feature

- 产品直径 Case diameter: ø4mm -ø18mm.
- 适用于再流焊 Reflow soldering is available.
- 适用于高密度表面组装 Available for high density surface mounting.
- 工作温度范围宽 (-40 ~+105℃)Operating over wide temperature range.
- ROHS 指令已对应完毕 Adapted to the ROHS directive.

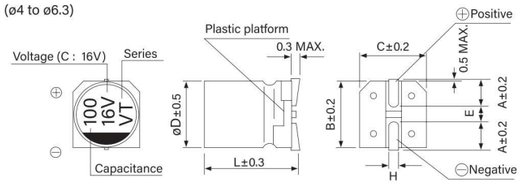
技术性能 Specifications

项目 Item	特性 Performance Characteristics
使用温度范围 Operating temperature range	-40~+105℃
额定电压范围 Rated voltage range	6.3~100V
标称电容量范围 Nominal capacitance range	0.1~8200μF
标称电容量允许偏差 Capacitance tolerance	±20%(120Hz，+20℃)
漏电流 Leakage current	I ≤ 0.01$C_R V_R$ (μA) or 3μA 2 分钟 取较大者 (at 20℃ ,after 2 minutes) (Whichever is greater)　C_R: 标称电容量（μF）　C_R: Nominal Capacitance　U_R: 额定电压 (V)　U_R:Rated voltage(V)
损耗角正切值 (tg δ) Dissipation factor (+20℃~120Hz)	U_R(V) 6.3 10 16 25 35 50 100 tg δ 0.28 0.24 0.20 0.12 0.14 0.12 0.1 容量大于 1000μF 者，每增加 1000μF，其损耗角正切值增加 0.02 When nominal capacitance exceeds 1000μF,add 0.02 to the value above for each 1000μF increase.
耐久性 Load life	+105℃ 施加额定电压 2000 小时后，电容器应满足以下要求： After applying the rated voltage at +105℃ for 2000 hours, the capacitor shall meet the following requirements: 电容量变化率 Capacitance change : ±20% 初始测量值以内（＜ø8 : ±25% 初始值以内） Within ±20% of the initial value（ ＜ø8 Within ±25% of the initial value） 漏电流 Leakage current : ≤初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 200% 初始规定值 （＜ø8 : ≤ 300% 初始规定值） ≤ 200% of the initial specified value （ ＜ø8 ≤300% of the initial specified value
高温储存 Shelf life	+105℃ 贮存 1000 小时后 , 电容器应满足以上耐久性要求： After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life abovoe
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio(120Hz)	U_R(V) 6.3 10 16 25 35 50 100 Z-25℃/Z+20℃ 4 3 2 2 2 2 2 Z-40℃/Z+20℃ 8 6 4 4 3 3 3
耐焊接热 Resistance to Soldering Heat	在 250℃ 的条件下，电容器在热板上保持 30 秒，然后从热板上取出电容器，让其在室温下恢复，电容器应满足以下要求： 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 temporature, they meet the following requiromant. 电容量变化率 Capacitance change : ±10% 初始测量值以内 Within ±10% of the initial value 漏电流 Leakage current : ≤初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤初始规定值 ≤ the initial specified value

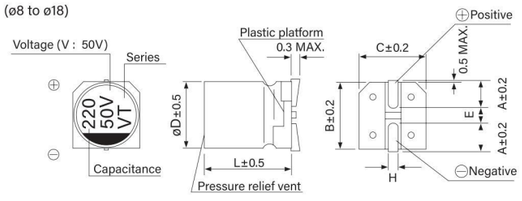
尺寸和标记 Dimensions And Marking

* 适用于 Apply to ø6.3×7.7

(ø4 to ø6.3)



(ø8 to ø18)



	4×5.4	5×5.4	6.3×5.4	6.3×7.7	6.3×10.5	8×10.5	8×12.5	10×10.5	10×12.5	12.5×13.5	12.5×16.5	16×16.5	18×16.5	18×21.5
A	1.8	2.1	2.4	2.4	2.4	2.9	2.9	3.2	3.2	4.8	4.8	5.8	6.8	6.8
B	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3	10.3	13	13	17	19	19
C	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3	10.3	13	13	17	19	19
E	1.0	1.3	2.2	2.2	2.2	3.1	3.1	4.5	4.5	4.4	4.4	6.4	6.4	6.4
L	5.4	5.4	5.4	7.7	10.5	10.5	12.5	10.5	12.5	13.5	16.5	16.5	16.5	21.5
H	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1	0.8~1.1	1.1~1.4	1.1~1.4	1.1~1.4	1.1~1.4	1.1~1.4

VT Series

标准评级 Standard Ratings

额定纹波电流 Rated Ripple Current (mA,+105℃,120Hz)

电压 U_R / 容量 C_R(μF)	6.3		10		16		25		35		50		100	
	Case Size øD×L (mm)	Rated Ripple Current	Case Size øD×L (mm)	Rated Ripple Current	Case Size øD×L (mm)	Rated Ripple Current	Case Size øD×L (mm)	Rated Ripple Current	Case Size øD×L (mm)	Rated Ripple Current	Case Size øD×L (mm)	Rated Ripple Current	Case Size øD×L (mm)	Rated Ripple Current
0.1											4×5.4	2.3		
0.22											4×5.4	3.4		
0.33											4×5.4	4.1		
0.47											4×5.4	5		
1.0											4×5.4	10	4×5.4	22
2.2											4×5.4	16	4×5.4	22
3.3									4×5.4	13	4×5.4	16	5×5.4	30
4.7							4×5.4	22	4×5.4	22	4×5.4	16	5×5.4	30
											5×5.4	23	6.3×5.4	65
10					4×5.4	28	4×5.4	22	4×5.4	22	5×5.4	25	6.3×5.4	65
							5×5.4	28	5×5.4	30	6.3×5.4	32	6.3×7.7	80
22	4×5.4	29	4×5.4	28	4×5.4	28	5×5.4	32	6.3×5.4	60	6.3×5.4	35	6.3×7.7	80
			5×5.4	30	5×5.4	39	6.3×5.4	55			6.3×7.7	51	8×10.5	230
33	4×5.4	30	4×5.4	29	5×5.4	35	6.3×5.4	65	6.3×5.4	60	6.3×7.7	70	8×10.5	230
	5×5.4	34	5×5.4	34										
47	4×5.4	32	4×5.4	30	5×5.4	45	6.3×5.4	70	6.3×5.4	65	6.3×7.7	80	8×10.5	230
	5×5.4	46	5×5.4	45	6.3×5.4	70			6.3×7.7	80				
100	5×5.4	52	5×5.4	50	6.3×5.4	70	6.3×7.7	100	6.3×7.7	90	8×10.5	230	10×12.5	800
	6.3×5.4	71	6.3×5.4	69	6.3×7.7	120			8×10.5	296			12.5×13.5	1050
150	6.3×5.4	90	6.3×5.4	70	6.3×7.7	120	8×10.5	280	8×10.5	300	10×10.5	300	16×16.5	1450
220	6.3×5.4	95	6.3×5.4	95	6.3×7.7	120	8×10.5	320	8×10.5	350	10×10.5	375	16×16.5	1450
	6.3×7.7	120	6.3×7.7	120										
330	6.3×7.7	130	6.3×7.7	130	8×10.5	305	10×10.5	450	10×10.5	450	10×10.5	400	18×16.5	1550
	8×10.5	290	8×10.5	305										
470	6.3×7.7	140	6.3×7.7	140	8×10.5	340	10×10.5	490	10×10.5	480	12.5×13.5	490	18×16.5	1550
	8×10.5	330	8×10.5	340										
680	8×10.5	335	10×10.5	380	10×10.5	450	10×10.5	500	12.5×13.5	600	16×16.5	750	18×21.5	1950
1000	8×10.5	340	10×10.5	410	10×10.5	550	12.5×13.5	550	16×16.5	800	18×16.5	990	18×21.5	1950
1500	10×10.5	475	12.5×13.5	600	12.5×13.5	650	12.5×16.5	650	16×16.5	900				
2200	12.5×13.5	680	12.5×13.5	680	16×16.5	900	16×16.5	900	18×16.5	1050				
3300	12.5×16	850	16×16.5	950	16×16.5	950	18×16.5	1150						
4700	16×16.5	1000	16×16.5	1000	18×16.5	1225	18×21.5	1300						
6800	18×16.5	1290	18×16.5	1290										
8200	18×21.5	1450	18×21.5	1450										

* 支持客户根据需求定制 Support Customer Customization According To Demand

允许纹波电流的频率校正系数 Frequency Correction Factor Of Allowable Ripple Current

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