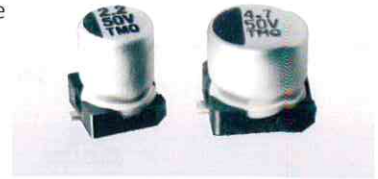


VT1 Series 片式铝电解电容器105°C标准品

Standard of 105°C Aluminum Electrolytic Capacitor of V-chip Type

- 工作温度范围宽(-55°C ~ +105°C) , 1000小时 • 适用于再流焊
- 适用于高密度表面组装 • 性能稳定, 可靠性高。
- Operating over wide temperature range • Reflow soldering is available
- Available for high density surface mounting • High stability and reliability

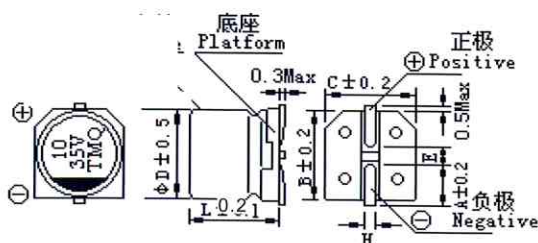


主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-55 ~ +105°C						
额定电压范围 Rated Voltage Range	6.3 ~ 50V DC						
标称电容量允许偏差 Capacitance Tolerance	± 20% (120Hz, 20°C)						
漏电流(20°C) Leakage Current	I ≤ 0.01C _R U _R (μA) 或 3μA 取较大者, (2分钟) I ≤ 0.01C _R U _R (μA) or 3μA, Whichever is greater (After 2 minutes)						
损耗角正切值(120Hz 20°C) Dissipation Factor	U _R (V)	6.3	10	16	25	35	50
	tg δ	0.26	0.20	0.16	0.14	0.12	0.12
温度特性 (120Hz) Temperature Characteristics	U _R (V)	6.3	10	16	25	35	50
Impedance Ratio (120Hz)	Z _{-25°C} /Z _{+20°C}	4	3	2	2	2	2
	Z _{-40°C} /Z _{+20°C}	8	6	4	4	3	3
耐久性 Load Life	+105°C施加额定电压 1000 小时,恢复 16 小时后,电容器应满足要求 After applying rated voltage for 1000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.						
	电容量变化率 Capacitance Change	≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value					
	漏电流值 Leakage	≤ 规定值 ≤ The specified value					
	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value					
高温贮存 Shelf Life	+105°C,1000 小时, 恢复 16 小时后,电容器应满足下列要求。 After storage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.						
	电容量变化率 Capacitance Change	≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value					
	漏电流值 Leakage	≤ 2 倍的规定值 ≤ 200% of the specified value					
	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value					
耐焊接热 Resistance to Soldering Heat	在 250°C 的条件下,电容器应在热板上保持 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°C for 30 seconds. After removing from the hot plate and restored at room temperature,then meet the following requirement.						
	电容量变化率 Capacitance Change	≤ ± 10% 初始测量值 ≤ ± 10% of Initial measured value					
	漏电流值 Leakage	≤ 规定值 ≤ The specified value					
	损耗角正切值 Dissipation Factor	≤ 规定值 ≤ The specified value					

尺寸及印字 Dimensions & Marking

(Φ4 ~ Φ6.3)



mm

Size	φ4×5.4	φ5×5.4	φ6.3×5.4
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		

VT1 Series

■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表
Nominal capacitance, rated voltage, rated ripple current and case size table

WV mV μF	6.3		10		16		25		35		50	
	D×L mm	I~mA	D×L mm	I~mA	D×L mm	I~mA	D×L mm	I~mA	D×L mm	I~mA	D×L mm	I~mA
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	3.0
0.47											4×5.4	4.0
1.0											4×5.4	8.0
2.2											4×5.4	11
3.3											4×5.4	13
4.7					4×5.4	12	4×5.4	13	4×5.4	14	5×5.4	18
10					4×5.4	20	4×5.4 5×5.4	14 20	5×5.4	24	6.3×5.4	28
22	4×5.4	20	4×5.4 5×5.4	21 27	4×5.4 5×5.4	22 31	5×5.4 6.3×5.4	25 36	5×5.4 6.3×5.4	27 40	6.3×5.4	42
33	4×5.4 5×5.4	22 27	4×5.4 5×5.4	23 34	5×5.4 6.3×5.4	28 40	5×5.4 6.3×5.4	29 44	6.3×5.4	50		
47	4×5.4 5×5.4	25 37	5×5.4 6.3×5.4	30 41	5×5.4 6.3×5.4	31 56	6.3×5.4	48				
100	5×5.4 6.3×5.4	39 57	6.3×5.4	53	6.3×5.4	75						
220	6.3×5.4	67										

I~ 额定纹波电流 Rated ripple current: (mA, 105°C, 120Hz)

■ 额定纹波电流的频率系数 Frequency coefficient of rated ripple current

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