

VM 型片式铝电解电容 Series Chip Type Aluminum Electrolytic Capacitors

特点 Features

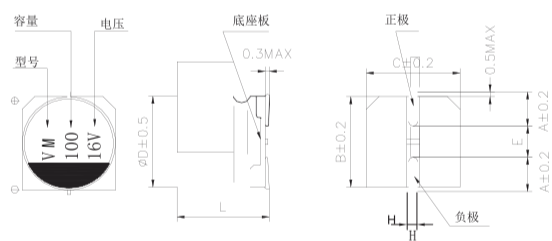
- 125℃高温长寿命品。 125 °C high temperature and long life.
- 适用于回流焊。 Reflow soldering is available.
- 适用于高密度表面贴装。 Suitable for high density SMT.
- 符合ROHS指令标准。 Comply with ROHS directive standards.



主要技术性能 Specifications

项目 Items	特性 Characteristics					
工作温度范围 Operating Temperature Range	-40℃ ~ +125℃					
额定电压范围 Rated Voltage Range	10V ~ 50V					
标称容量范围 Nominal Capacitance Range	-					
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)					
漏电流 Leakage Current	I ≤ 0.01CRVR or 3(μA), 取较大者 (2 分钟) CR: 标称容量 (μF) UR: 额定电压 (V) I ≤ 0.01CRVR or 3(μA) Whichever is greater (at 20℃, After 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)					
损耗角正切 (tg δ) Dissipation Factor (Max) 20℃, 120Hz	UR (V)	10	16	25	35	50
	tg δ	0.24	0.20	0.16	0.14	0.14
耐久性 Load Life	+125℃施加额定电压 1000-1500 小时后, 电容器应满足以下要求: After 1000-1500 hours' application of rated voltage at 125℃, the capacitor shall meet the following					
	电容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial				
	损耗角正切 Dissipation Factor	≤ 200%初始规定值 Not more than 200% of the initial specified				
高温贮存 Shelf Life	+125℃贮存 1000 小时后, 加额定工作电压 30 分钟, 电容器应满足以上耐久性要求 After storage for 1000 hours at +125℃, UR to be applied for 30 minutes, the capacitors shall meet the requirement of					
	UR (V)	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	6	5	4	3	3
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	Z(-40℃)/Z(+20℃)					
	12	8	6	4	4	
	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 temperature, they meet the following requirement.					
耐焊接热 Resistance to Soldering Heat	电容量变化率 Capacitance Change					
	±10%初始值以内 Within ±10% of the initial value					
	损耗角正切 Dissipation Factor					
≤ 初始规定值 Not more than the initial specified value						
漏电流 Leakage Current						
≤ 初始规定值 Not more than the initial specified value						

外形图及尺寸表 Case Size Table



	6.3 x 5.8	6.3 x 7.7	8 x 10.5	10 x 10.5
A	2.4	2.4	2.9	3.2
B	6.6	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3
E	2.2	2.2	3.1	4.5
L	5.8	7.7	10.5	10.5
H	0.5 ~ 0.8		0.8 ~ 1.1	

注: L 值 Φ6.3 壳号公差 ±0.3, Φ8 及以上壳号公差 ±0.5

■ 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

电压 WV	容量Cap (μA)	产品尺寸 Size	纹波电流mArms 100KHz/125℃	阻抗 Ω max/100k Hz)	电压 WV	容量Cap (μA)	产品尺寸 Size	纹波电流 mArms 100KHz/125℃	阻抗 Ω max/100k Hz)	
10	68	6.3*5.8	110	1.2	35	10	6.3*5.8	110	1.2	
	100	6.3*7.7	220	0.6		22	6.3*5.8	110	1.2	
	220	8*10.5	296	0.3		33	6.3*7.7	220	0.6	
	330	8*10.5	296	0.3		47	6.3*7.7	220	0.6	
	330	10*10.5	440	0.2		47	8*10.5	296	0.3	
	470	10*10.5	440	0.2		100	8*10.5	296	0.3	
16	33	6.3*5.8	110	1.2	50	100	10*10.5	440	0.2	
	47	6.3*7.7	220	0.6		220	10*10.5	440	0.2	
	100	6.3*7.7	220	0.6		10	6.3*5.8	51	2.8	
	100	8*10.5	296	0.3		22	6.3*7.7	83	2.0	
	220	8*10.5	296	0.3		33	6.3*7.7	83	2.0	
	220	10*10.5	440	0.2		33	8*10.5	160	0.7	
25	330	10*10.5	440	0.2	47	8*10.5	160	0.7		
	22	6.3*5.8	110	1.2	47	10*10.5	247	0.5		
	33	6.3*5.8	110	1.2	100	10*10.5	247	0.5		
	47	6.3*7.7	220	0.6	纹波电流频率系数					
	100	8*10.5	296	0.3	频率	容量	120	1K	10K	100K
	220	8*10.5	296	0.3						
220	10*10.5	440	0.2	10	0.66	0.86	0.93	1.0		
330	10*10.5	440	0.2	22-470	0.93	0.97	1.0	1.0		