

VM

特点 Features

- ◆ 保证125°C 2000~3000小时。Endurance 2000~3000h at 125°C.
- ◆ 额定电压范围 : 10~50V. Rated Voltage Range:10~50V.
- ◆ 低阻抗 , 高温长寿命。Low ESR , High temperature, Long life Type.
- ◆ 满足RoHS。RoHS Compliant.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics					
类别温度范围 Category Temperature Range	-40°C ~ +125°C					
额定电压范围 Rated Voltage(U_R)	10 ~ 50V					
标称电容量范围 Nominal Capacitance Range(C_R)	10~ 3300μF					120Hz , +20°C
标称电容量允许偏差 Allowed Capacitance Tolerance(C_T)	±20%(M)					120Hz , +20°C
漏电流 Leakage Current(I_L)	φ6.3-10.2 : $I_L \leq 0.01C_R U_R$ 或者 $3\mu A$ 取较大值 (Whichever is greater) φ12.5-18 : $I_L \leq 0.03C_R U_R$ 或者 $4\mu A$ 取较大值 (Whichever is greater)					+20°C after 2 minutes
损耗角正切值 Tangent of loss angle($\tan\delta$)	U_R (V)	10	16	25	35	50
	$\tan\delta$	0.24	0.20	0.16	0.14	0.14
低温特性 Characteristics at Low Temperature	U_R (V)	10	16	25	35	50
	$Z_{-25^\circ C} / Z_{+20^\circ C}$	6	5	4	3	3
	$Z_{-40^\circ C} / Z_{+20^\circ C}$	12	8	6	4	4
耐久性 Load Life	+125°C , 连续施加额定电压2000~3000小时 , 恢复16小时后 : After applying rated voltage for 2000~3000 hours at 125°C and then recovery 16 hours:					
	规定时间 Specified time	φ6.3:2000小时 φ8~φ18:3000小时				
	电容量变化率 Capacitance change	±30%初始值以内 Within ±30% of initial value				
	损耗角正切值 $\tan\delta$	≤ 300%初始规定值 Not more than 300% of specified value				
	漏电流 Leakage current	≤ 初始规定值 Not more than specified value				
高温贮存 Shelf Life	+125°C,1000小时贮存后,恢复16小时后 : After storage for 1000 hours at +125°C and then recovery 16 hours:					
	电容量变化率 Capacitance change	±30%初始值以内 Within ±30% of initial value				
	损耗角正切值 $\tan\delta$	≤ 300%初始规定值 Not more than 300% of specified value				
	漏电流 Leakage current	≤ 初始规定值 Not more than specified value				
耐焊接热 Resistance to Soldering Heat	在250°C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°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.					
	电容量变化率 Capacitance change	±10%初始值以内 Within ±10% of initial value				
	损耗角正切值 $\tan\delta$	≤ 初始规定值 Not more than specified value				
	漏电流 Leakage current	≤ 初始规定值 Not more than specified value				

尺寸图 Dimensional drawings

Fig.1

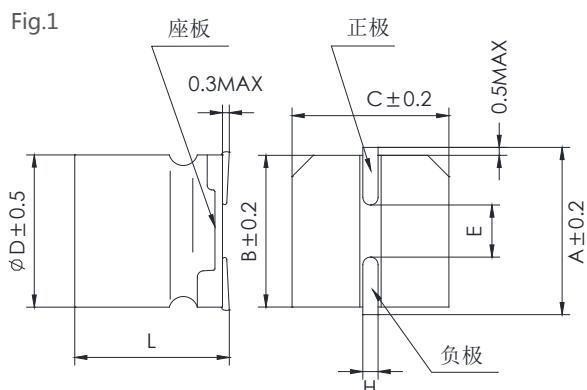
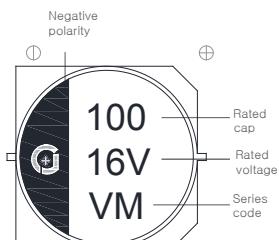
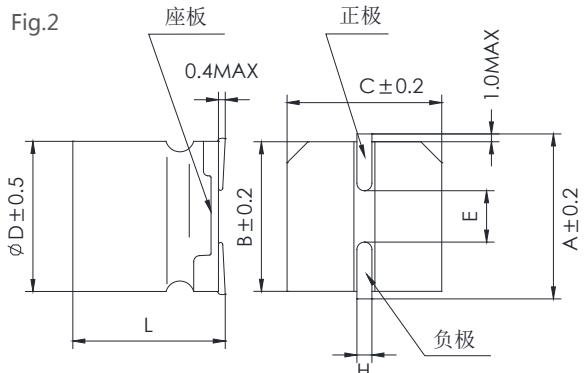
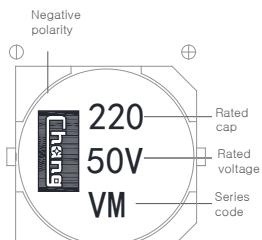
Marking
ΦD=6.3~10.2mm

Fig.2



ΦD=12.5 ~ 18mm



尺寸表 Size table

单位 Unit: mm

ΦD	L	A	B	C	E±0.2	H	Fig.No.
6.3	5.8±0.3	7.3	6.6	6.6	2.2	0.5~0.8	1
6.3	7.7±0.3	7.3	6.6	6.6	2.2		
8	10.5±0.5	9.0	8.3	8.3	3.1	0.8~1.1	
10	10.5±0.5	11.0	10.3	10.3	4.5		
10	12.5±0.5	11.0	10.3	10.3	4.5	1.1~1.4	2
12.5	13.5±0.5	13.6	13	13	4.5		
12.5	16±0.5	13.6	13	13	4.5		
16	16.5±0.5	18.0	17	17	6.4		
16	21.5±0.5	18.0	17	17	6.4		
18	16.5±0.5	20.0	19	19	6.4		
18	21.5±0.5	20.0	19	19	6.4		

规格特性表
Table of specifications and characteristics

C _R (μF)	U _R (V)	10V			16V			25V			35V			50V		
		ΦDxL mm*mm	I _{AC,R} 100KHz 125°C mA	ESR _{max} 100KHz 25°C Ω												
10											6.3*5.8	110	0.7	6.3*5.8	51	0.8
22								6.3*5.8	110	0.7	6.3*5.8	110	0.7	6.3*7.7	83	0.7
33				6.3*5.8	110	0.7	6.3*5.8	110	0.7	6.3*7.7	220	0.45	8*10.5	160	0.36	
47				6.3*5.8	110	0.7	6.3*7.7	220	0.45	6.3*7.7	220	0.45	8*10.5	160	0.36	
100	6.3*7.7	220	0.45	6.3*7.7	220	0.45	8*10.5	296	0.20	8*10.5	296	0.20	10*10.5	247	0.23	
220	8*10.5	296	0.20	8*10.5	296	0.20	10*10.5	440	0.16	10*10.5	440	0.16	12.5*13.5	600	0.23	
330	8*10.5	296	0.20	10*10.5	440	0.16	10*10.5	440	0.16	12.5*13.5	850	0.092	12.5*16	700	0.15	
470	10*10.5	440	0.16	10*10.5	440	0.16	12.5*13.5	850	0.092	16*16.5	820	0.10	16*16.5	730	0.15	
680	12.5*13.5	750	0.12	12.5*13.5	750	0.12	16*16.5	820	0.10	18*21.5	1500	0.065	18*16.5	800	0.13	
1000	12.5*16	820	0.10	12.5*16	820	0.10	18*21.5	1500	0.065				18*21.5	980	0.11	
1500	16*16.5	1000	0.08	16*16.5	1000	0.08										
2200	18*16.5	1300	0.075	18*21.5	1500	0.065										
3300	18*21.5	1500	0.065													

额定纹波电流频率修正系数
Frequency correction factor for ripple current

Frequency (Hz)	50	120	300	1K	≥10K
Coefficient (kf)	0.35	0.50	0.64	0.83	1.00