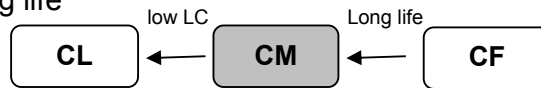


CM Series

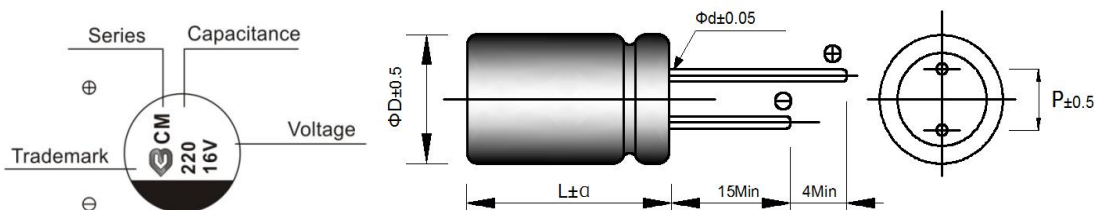
- Ultra low impedance, high ripple, miniaturized, long life
- Load life of 5000 hours at 105°C
- RoHS Compliant



◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperture Range	-55 ~ +105℃		
额定工作电压范围 Rated Voltage Range	2.5 ~ 25V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (20℃) I≤0.15CV 或120μA (取大值) (The bigger) (The bigger) After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	2.5~25	(at 20℃,120Hz)
	tanδ (Max.)	0.10	
温度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
耐久性 Endurance	105℃施加额定工作电压5000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20℃ after the rated voltage is applied for 5000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≤±20% of the initial value	
	D.F.(tanδ)	≤150% of the specified value	
	ESR	≤150% of the specified value	
	Leakage current	≤The specified value	
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20℃ after the rated voltage is applied for 1000 hours at 60℃, 90% ~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≤±20% of the initial value	
	D.F.(tanδ)	≤150% of the specified value	
	ESR	≤150% of the specified value	
	Leakage current	≤The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在105℃环境中, 按充电30秒, 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≤±20% of the initial value	
	D.F.(tanδ)	≤150% of the specified value	
	ESR	≤150% of the specified value	
	Leakage current	≤The specified value	

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2	2.5	3.5	5
Φd	0.5	0.5	0.6	0.6
α	L < 16mm: 1.0			
	L ≥ 16mm: 2.0			

CM Series◆ 尺寸与最大纹波电流一览表 **Standard Ratings**

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃, 100 KHz	Rated ripple current (mA rms/105 ℃/100kHz)
2.5 (0B)	330	5*7	18	2421
	390	5*7	18	2421
	470	5*7	18	2421
	560	5*7	18	2421
4 (0G)	220	5*7	18	2421
	270	5*7	18	2421
	330	5*7	18	2421
6.3 (0J)	180	5*7	20	2421
	220	5*7	18	2790
	330	5*7	18	2790
	270	6.3*8	18	2790
	330	6.3*8	16	2790
10 (1A)	100	5*7	18	2421
	150	5*7	18	2421
	220	6.3*8	16	3690
16 (1C)	100	5*7	20	2421
	100	6.3*8	18	2610
	150	6.3*8	18	2610
25 (1E)	10	5*7	25	1503
	22	6.3*8	25	1503

◆ 纹波电流修正系数 **Rated Ripple Current Coefficient**

频率 Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
系数 Coefficient	0.05	0.30	0.70	1.00

CM Series◆ 尺寸与最大纹波电流一览表 **Standard Ratings**

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃, 100 KHz	Rated ripple current (mA _{rms} /105℃/100kHz)
2.5 (0B)	560	8*8	8	5415
	680	8*8	8	5415
	820	8*8	8	5415
	1000	8*8	8	5415
	1200	8*8	8	5415
4 (0G)	560	8*8	8	5415
	680	8*8	8	5415
	820	8*8	8	5415
6.3 (0J)	330	8*8	8	5415
	390	8*8	8	5415
	470	8*8	8	5415
	560	8*8	8	5415
	680	8*8	8	5415
	820	8*8	8	5415
10 (1A)	100	8*8	9	5035
	180	8*8	11	5035
	220	8*8	11	5035
16 (1C)	100	8*8	12	4750
	180	8*8	12	4750
	220	8*8	12	4750
25 (1E)	22	8*8	45	4275
	33	8*8	40	4275

◆ 纹波电流修正系数 **Rated Ripple Current Coefficient**

频率Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
系数 Coefficient	0.05	0.30	0.70	1.00