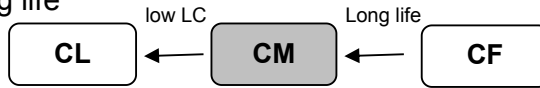


CM Series

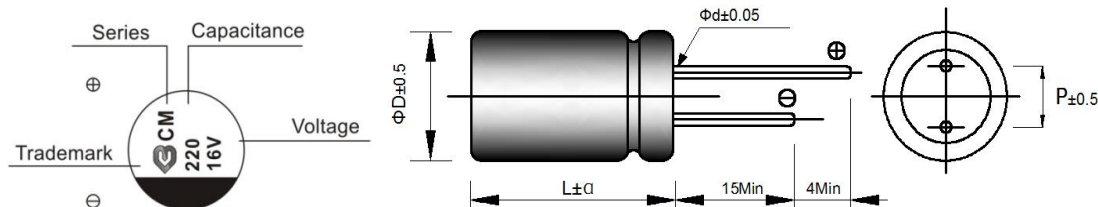
- Ultra low impedance, high ripple, miniaturized, long life
- Load life of 5000 hours at 105°C
- RoHS Compliant



规格表 Specifications

项目 Items	特性参数 Characteristics	
使用温度范围 Category Temperature Range	-55 ~ +105°C	
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°C, 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°C) I ≤ 0.15CV 或 120µA (取大值) (The bigger) (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.	
损耗角正切值 tanδ Dissipation Factor	Rated voltage (V)	2.5 ~ 25
	tanδ (Max.)	0.10
温度特性 Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25
	Z(-55°C)/Z(+20°C)	≤ 1.25
耐久性 Endurance	105°C 施加额定工作电压5000小时, 恢复到20°C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°C after the rated voltage is applied for 5000 hours at 105°C.	
	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°C 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°C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°C after the rated voltage is applied for 1000 hours at 60°C, 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°C 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°C 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(μF)	Case size ΦD*L(mm)	ESR(mΩ) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /105 °C/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°C, 100 KHz	Rated ripple current (mArms/105°C/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