

CD Series

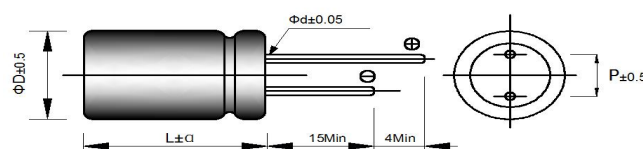
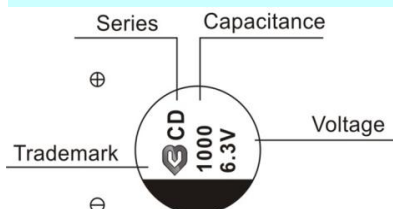
- Ultra low impedance, high ripple current, long life
- Load life of 10000 hours at 105°C
- RoHS Compliant



◆ 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 Less than or equal to the specified value. After 2 minute's applied for rated Voltage at 20°C		
损耗角正切值 tanδ Dissipation Factor	Rated voltage (V)	2.5~25	(at 20°C, 120Hz)
	tanδ (Max.)	0.10	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25	(100KHz)
	Z(-55°C)/Z(+20°C)	≤ 1.25	
耐久性 Endurance	105°C施加额定工作电压10000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 10000 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	
Damp Heat (Steady State) 耐湿负荷特性	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
a	L < 16mm: 1.0			
	L ≥ 16mm: 2.0			

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◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(μ F)	Case size Φ D*L(mm)	ESR($m\Omega$) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /105°C/100kHz)
2.5 (0E)	680	8*12	10	5024
	820	8*12	10	5024
	1500	10*12	10	5279
4 (0G)	560	8*12	10	5024
	1200	10*12	10	5279
6.3 (0J)	680	8*12	12	4544
	820	10*12	10	5279
	1000	10*12	8	5090
	1500	10*12	10	8279
10 (1A)	270	8*12	13	4166
	560	8*12	10	5279
	820	10*12	10	5750
	1000	8*12	12	4242
	1000	10*12	10	5750
	1500	10*12	10	5750
16 (1C)	270	8*12	13	4525
	330	8*12	13	4525
	470	8*12	13	4525
	560	10*12	13	4525
	1000	10*12	13	4525
20 (1D)	100	8*12	30	2592
	150	10*12	25	2734
25 (1E)	47	8*12	24	2500
	68	8*12	24	2500
	100	8*12	25	2500
	220	10*12	15	3500

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

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