

CD Series

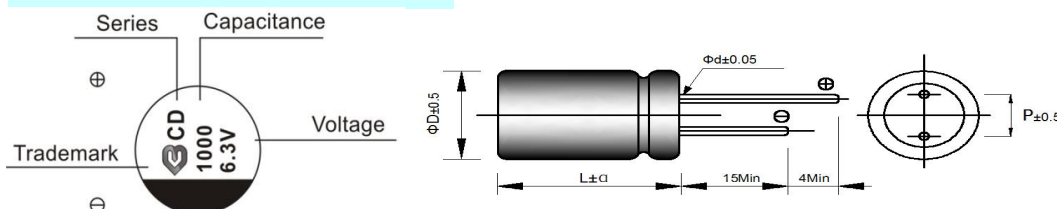
- Ultra low impedance, high ripple current, long life
- Load life of 10000 hours at 105°C
- RoHS Compliant



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 |
| Δ | L<16mm: 1.0 | | | |
| | L>16mm: 0.5 | | | |



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◆ 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°C, 100 KHz | Rated ripple current (mArms/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≤f<1kHz | 1kHz≤f<10kHz | 10kHz≤f<100kHz | 100kHz≤f<500kHz |
|------------------|--------------|--------------|----------------|-----------------|
| 系数 Coefficient | 0.05 | 0.30 | 0.70 | 1.00 |

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