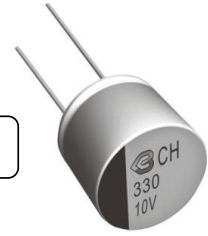
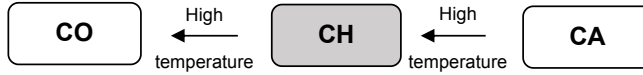


CH Series

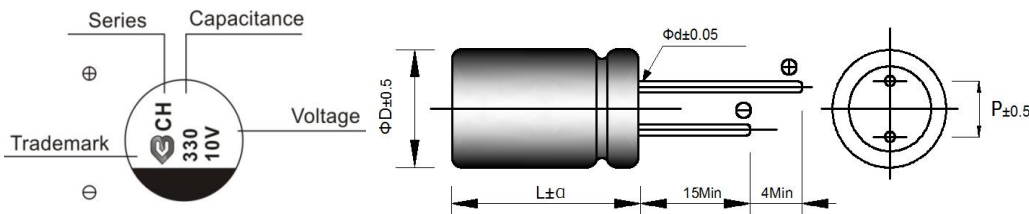
- Low impedance, high ripple, high temperature resistant
- Load life of 2000 hours at 125°C
- RoHS Compliant



◆ 规格表 Specifications

| 项目 Items | 特性参数 Characteristics | | | | | |
|--|---|-------------------------------|------|-------|-------|------------------|
| 使用温度范围 Category Temperature Range | -55 ~ +125°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) 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) | 2.5~4 | 6.3 | 10~16 | 20~25 | (at 20°C, 120Hz) |
| | tanδ (Max.) | 0.18 | 0.15 | 0.12 | 0.15 | |
| 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 | 125°C 施加额定工作电压2000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 2000 hours at 125°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125°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 125°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 | | | |

CH Series

◆ 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 Ω) at 20 $^{\circ}$ C, 100 KHz | Rated ripple current (mArms/105 $^{\circ}$ C\100kHz) | Rated ripple current (mArms/125 $^{\circ}$ C/100kHz) |
|-------------------|-----------------------------|--------------------------|---|---|---|
| 2.5 (OB) | 560 | 8*12 | 13 | 4600 | 1510 |
| | 820 | 8*12 | 13 | 4600 | 1510 |
| | 1200 | 10*12 | 13 | 5400 | 1700 |
| 4 (OG) | 560 | 8*12 | 13 | 4600 | 1510 |
| | 820 | 10*12 | 13 | 5400 | 1700 |
| | 1200 | 10*12 | 13 | 5400 | 1700 |
| 6.3 (OJ) | 470 | 8*12 | 15 | 4300 | 1400 |
| | 680 | 8*12 | 15 | 4300 | 1400 |
| | 820 | 10*12 | 12 | 5400 | 1700 |
| 7.5 (OP) | 500 | 6.3*8 | 15 | 4300 | 1400 |
| | 680 | 8*8 | 15 | 4300 | 1400 |
| | 820 | 10*12 | 12 | 5400 | 1700 |
| 10 (1A) | 220 | 8*12 | 18 | 4000 | 1200 |
| | 470 | 8*12 | 18 | 4000 | 1200 |
| | 560 | 10*12 | 14 | 5400 | 1600 |
| | 820 | 8*12 | 12 | 5100 | 1600 |
| | 1500 | 10*12 | 12 | 5100 | 1600 |
| 16 (1C) | 180 | 8*12 | 18 | 3500 | 1100 |
| | 220 | 8*12 | 18 | 3500 | 1100 |
| | 330 | 10*12 | 16 | 4600 | 1510 |
| 20 (1D) | 100 | 8*12 | 24 | 3500 | 1100 |
| | 150 | 10*12 | 20 | 4300 | 1400 |
| 25 (1E) | 22 | 8*12 | 65 | 1200 | 500 |
| | 47 | 8*12 | 55 | 1900 | 790 |
| | 220 | 8*12 | 40 | 2100 | 1050 |
| | 270 | 10*12 | 40 | 2100 | 1050 |
| | 330 | 10*12 | 32 | 2750 | 1375 |

◆ 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 |

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