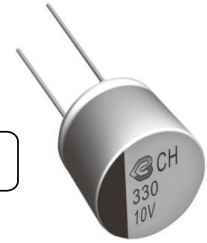
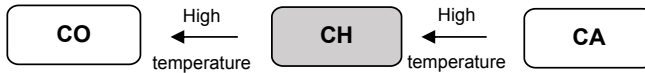


**CH Series**

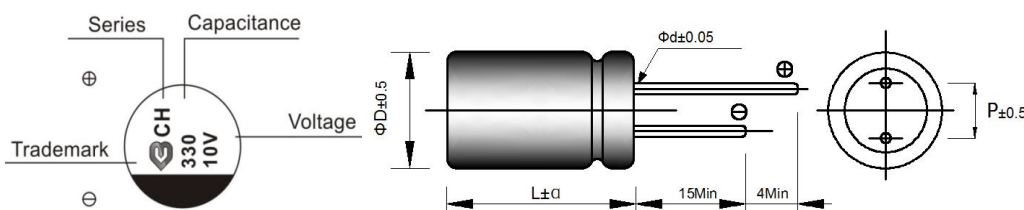
- Low impedance, high ripple, high temperature resistant
- Load life of 2000 hours at 125°C
- RoHS Compliant



◆ 规格表 Specifications

| 项目 Items  | 特性参数 Characteristics  |                               |      |          |       |                  |
|---|---|-------------------------------|------|----------|-------|------------------|
| 使用温度范围<br>Category<br>Temperature Range                             | -55 ~ +125°C  |                               |      |          |       |                  |
| 额定工作电压范围<br>Rated Voltage Range                                     | 2.5 ~ 25V   |                               |      |          |       |                  |
| 静电容量允许偏差<br>Capacitance tolerance                                   | ±20%(M) (at 20°C, 120Hz)  |                               |      |          |       |                  |
| 漏电流<br>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)<br>I ≤ 0.2CV 或 500μA (取大值) (The bigger)<br>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<br>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<br>Low Temperature<br>Characteristics<br>(Max.Impedance Ratio) | Z(-25°C)/Z(+20°C)   | ≤ 1.25                        |      | (100KHz) |       |                  |
|   | Z(-55°C)/Z(+20°C)   | ≤ 1.25                        |      |          |       |                  |
| 耐久性<br>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<br>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<br>(Steady State)<br>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<br>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)<br>Surge Voltage=Rated voltage * 1.15(V)<br>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<br>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 |
| α  | 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( $\mu$ F) | Case size $\Phi$ D*L(mm) | ESR(m $\Omega$ )<br>at 20 $^{\circ}$ C, 100 KHz | Rated ripple current<br>(mArms/105 $^{\circ}$ C\100kHz) | Rated ripple current<br>(mArms/125 $^{\circ}$ C/100kHz) |
|-------------------|-----------------------------|--------------------------|---|---|---|
| 2.5<br>(OB)       | 560                         | 8*12                     | 13  | 4600  | 1510  |
|                   | 820                         | 8*12                     | 13  | 4600  | 1510  |
|                   | 1200                        | 10*12                    | 13  | 5400  | 1700  |
| 4<br>(OG)         | 560                         | 8*12                     | 13  | 4600  | 1510  |
|                   | 820                         | 10*12                    | 13  | 5400  | 1700  |
|                   | 1200                        | 10*12                    | 13  | 5400  | 1700  |
| 6.3<br>(OJ)       | 470                         | 8*12                     | 15  | 4300  | 1400  |
|                   | 680                         | 8*12                     | 15  | 4300  | 1400  |
|                   | 820                         | 10*12                    | 12  | 5400  | 1700  |
| 7.5<br>(OP)       | 500                         | 6.3*8                    | 15  | 4300  | 1400  |
|                   | 680                         | 8*8                      | 15  | 4300  | 1400  |
|                   | 820                         | 10*12                    | 12  | 5400  | 1700  |
| 10<br>(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<br>(1C)        | 180                         | 8*12                     | 18  | 3500  | 1100  |
|                   | 220                         | 8*12                     | 18  | 3500  | 1100  |
|                   | 330                         | 10*12                    | 16  | 4600  | 1510  |
| 20<br>(1D)        | 100                         | 8*12                     | 24  | 3500  | 1100  |
|                   | 150                         | 10*12                    | 20  | 4300  | 1400  |
| 25<br>(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  |
|                   | 390                         | 6.3*13                   | 25  | 2200  | 1100  |
|                   | 470                         | 6.3*15                   | 25  | 3000  | 1500  |
|                   | 680                         | 8*16                     | 20  | 3300  | 1650  |

## ◆ 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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