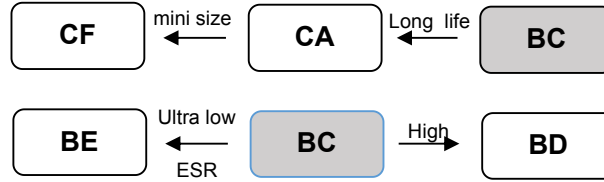


# BC Series

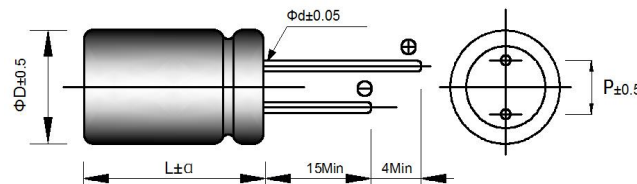
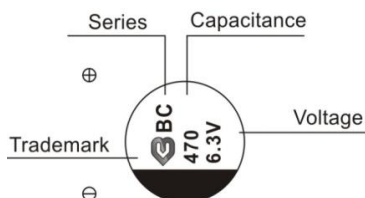
- low impedance, high ripple current
- Load life of 2000 hours at 105°C
- RoHS Compliant



## 规格表 Specifications

| 项目 Items   | 特性参数 Characteristics  |                               |
|--|---|-------------------------------|
| 使用温度范围<br>Category<br>Temperature Range                          | -55 ~ +105°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 280μA (取大值) (The bigger) (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)   | 2.5~25                        |
|  | tanδ (Max.)   | 0.12                          |
| 温度特性<br>Low Temperature Characteristics<br>(Max.Impedance Ratio) | Z(-25°C)/Z(+20°C)   | ≤ 1.25                        |
|  | Z(-55°C)/Z(+20°C)   | ≤ 1.25                        |
| 耐久性<br>Endurance   | 105°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 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<br>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<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<br>(Surge Voltage)  | 浪涌电压=额定电压* 1.15(V)<br>Surge Voltage=Rated voltage * 1.15(V)<br>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<br>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             | 5.5 | 6.3 | 8   | 10  |
| P  | 2             | 2.5 | 2.5 | 3.5 | 5   |
| Φd | 0.5           | 0.5 | 0.5 | 0.6 | 0.6 |
| α  | L < 16mm: 1.0 |     |     |     |     |
|    | L ≥ 16mm: 2.0 |     |     |     |     |

**BC Series**◆ 尺寸与最大纹波电流一览表 **Standard Ratings**

| Rated voltage (V) | Rated capacitance(uF) | Case size<br>ΦD*L(mm) | ESR(mΩ)<br>at 20°C, 100 KHz | Rated ripple current<br>(mA <sub>rms</sub> /105°C/100kHz) |
|-------------------|-----------------------|-----------------------|-----------------------------|---|
| 2.5<br>(0B)       | 560                   | 6.3*8                 | 20                          | 2690  |
|                   | 820                   | 6.3*8                 | 18                          | 2690  |
|                   | 820                   | 8*8                   | 12                          | 4100  |
|                   | 1000                  | 8*8                   | 12                          | 5700  |
| 4<br>(0G)         | 330                   | 5*7                   | 20                          | 2690  |
|                   | 560                   | 6.3*8                 | 18                          | 2690  |
|                   | 820                   | 8*8                   | 14                          | 4100  |
| 6.3<br>(0J)       | 220                   | 5*6                   | 20                          | 2000  |
|                   | 220                   | 5*7                   | 20                          | 2500  |
|                   | 270                   | 5*7                   | 20                          | 3100  |
|                   | 330                   | 5*7                   | 20                          | 3100  |
|                   | 330                   | 6.3*7                 | 18                          | 3100  |
|                   | 390                   | 5*9                   | 20                          | 2500  |
|                   | 470                   | 5.5*9                 | 20                          | 2500  |
|                   | 470                   | 6.3*8                 | 18                          | 3100  |
|                   | 560                   | 6.3*8                 | 18                          | 3100  |
|                   | 560                   | 8*8                   | 18                          | 4100  |
|                   | 680                   | 6.3*8                 | 16                          | 3100  |
|                   | 680                   | 8*8                   | 16                          | 4100  |
|                   | 820                   | 6.3*9                 | 18                          | 3100  |
|                   | 820                   | 8*8                   | 16                          | 3800  |
|                   | 1000                  | 6.3*11                | 15                          | 3100  |
|                   | 1000                  | 8*8                   | 15                          | 4100  |
|                   | 1500                  | 8*12                  | 14                          | 4100  |
|                   | 1500                  | 10*12                 | 14                          | 5330  |
| 2200              | 10*12                 | 14                    | 5330                        |   |
| 7.5 (0P)          | 220                   | 5*7                   | 22                          | 2500  |
|                   | 470                   | 6.3*11                | 16                          | 3500  |
|                   | 500                   | 5*9                   | 16                          | 3100  |
|                   | 500                   | 6.3*11                | 16                          | 3500  |
|                   | 680                   | 8*8                   | 16                          | 4100  |
| 10<br>(1A)        | 150                   | 5*7                   | 22                          | 2000  |
|                   | 220                   | 6.3*8                 | 18                          | 2800  |
|                   | 270                   | 6.3*8                 | 18                          | 3100  |
|                   | 330                   | 6.3*8                 | 16                          | 4100  |
|                   | 470                   | 8*8                   | 16                          | 4100  |
|                   | 680                   | 8*8                   | 15                          | 4100  |
|                   | 820                   | 8*12                  | 14                          | 4100  |
|                   | 1000                  | 8*12                  | 16                          | 4100  |
|                   | 1000                  | 10*12                 | 13                          | 4500  |
| 1200              | 10*12                 | 13                    | 4500                        |   |

◆ 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            |

**BC Series**◆ 尺寸与最大纹波电流一览表 **Standard Ratings**

| Rated voltage (V) | Rated capacitance(uF) | Case size<br>ΦD*L(mm) | ESR(mΩ)<br>at 20°C, 100 KHz | Rated ripple current<br>(mArms/105°C/100kHz) |
|-------------------|-----------------------|-----------------------|-----------------------------|--|
| 16<br>(1C)        | 82                    | 5*7                   | 22                          | 1500   |
|                   | 100                   | 6.3*8                 | 18                          | 2500   |
|                   | 150                   | 6.3*8                 | 18                          | 2500   |
|                   | 220                   | 5.5*9                 | 18                          | 2200   |
|                   | 220                   | 6.3*7                 | 16                          | 2900   |
|                   | 220                   | 8*8                   | 15                          | 4100   |
|                   | 270                   | 6.3*8                 | 20                          | 2800   |
|                   | 270                   | 8*8                   | 15                          | 4500   |
|                   | 330                   | 6.3*9                 | 18                          | 3100   |
|                   | 330                   | 8*8                   | 18                          | 3100   |
|                   | 470                   | 5.5*10                | 20                          | 2700   |
|                   | 470                   | 6.3*9                 | 18                          | 3100   |
|                   | 470                   | 8*8                   | 14                          | 3400   |
|                   | 470                   | 8*12                  | 14                          | 4100   |
|                   | 470                   | 10*12                 | 13                          | 5100   |
|                   | 560                   | 8*12                  | 13                          | 3800   |
|                   | 680                   | 8*12                  | 16                          | 3500   |
|                   | 680                   | 10*12                 | 13                          | 5250   |
|                   | 820                   | 8*12                  | 13                          | 3600   |
|                   | 820                   | 10*12                 | 13                          | 5250   |
| 1000              | 8*12                  | 13                    | 4100                        |  |
| 1000              | 10*12                 | 13                    | 5250                        |  |
| 20<br>(1D)        | 220                   | 6.3*8                 | 35                          | 2200   |
|                   | 330                   | 8*12                  | 25                          | 3100   |
|                   | 470                   | 8*12                  | 25                          | 3500   |
|                   | 680                   | 10*12                 | 25                          | 3800   |
| 25<br>(1E)        | 22                    | 5*7                   | 50                          | 1300   |
|                   | 33                    | 6.3*8                 | 40                          | 1500   |
|                   | 47                    | 6.3*8                 | 40                          | 2900   |
|                   | 68                    | 6.3*8                 | 40                          | 2900   |
|                   | 100                   | 8*8                   | 40                          | 3100   |
|                   | 150                   | 8*8                   | 35                          | 3100   |
|                   | 220                   | 8*12                  | 15                          | 4420   |
|                   | 220                   | 10*12                 | 15                          | 4560   |
|                   | 330                   | 8*12                  | 18                          | 3000   |
|                   | 330                   | 10*12                 | 15                          | 4850   |
|                   | 470                   | 8*12                  | 20                          | 4100   |
|                   | 680                   | 10*12                 | 15                          | 4100   |

◆ 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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