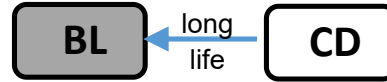


BL Series

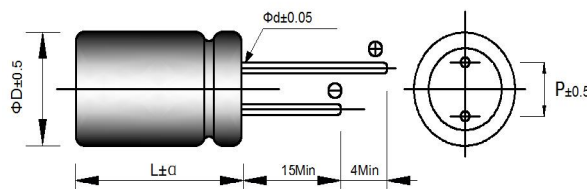
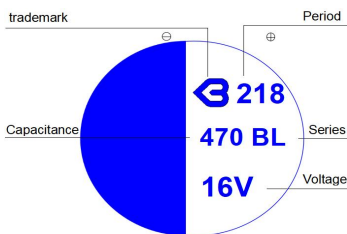
- Ultra low impedance, high ripple current, long life
- Load life of 15000 or 20000 hours at 105°C
- RoHS Compliant



◆ Specifications

| Items | Characteristics | |
|---|---|-------------------------------|
| Category | -55 ~ +105°C | |
| Temperature Range | -55 ~ +105°C | |
| Rated Voltage Range | 2.5 ~ 63V | |
| Capacitance tolerance | ±20%(M) (at 20°C, 120Hz) | |
| Leakage Current | I ≤ 0.2CV or 500μA (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value. | |
| tanδ | Rated voltage (V) | 2.5~63 |
| | tanδ (Max.) | 0.12 |
| Dissipation Factor | (at 20°C, 120Hz) | |
| | | |
| Low Temperature Characteristics (Max.Impedance Ratio) | Z(-25°C)/Z(+20°C) | ≤ 1.25 |
| | Z(-55°C)/Z(+20°C) | ≤ 1.25 |
| Endurance | The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 15000 or 20000 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) | 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 |
| (Surge Voltage) | Surge Voltage=Rated voltage * 1.15(V) | |
| | The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30seconds | |
| | 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 | |

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 |
| a | L<16mm: 1.0 | | | | |
| | 16 ≤ L<30mm: 2.0 | | | | |
| | L ≥ 30mm: 3.0 | | | | |

BL Series

◆ Standard Ratings

| Rated voltage (V) | Rated capacitance(μF) | Case size ΦD*L(mm) | ESR(mΩ) at 20°C, 100 KHz | Rated ripple current (mA _{rms} /105°C/100kHz) |
|-------------------|-----------------------|-----------------------|-----------------------------|---|
| 2.5 | 680 | 8*12 | 10 | 5100 |
| | 820 | 8*12 | 10 | 5100 |
| | 1500 | 10*12 | 10 | 5300 |
| 4 | 560 | 8*12 | 10 | 5000 |
| | 1200 | 10*12 | 10 | 5300 |
| 6.3 | 680 | 8*12 | 12 | 4600 |
| | 820 | 10*12 | 10 | 5300 |
| | 1000 | 10*12 | 8 | 5100 |
| | 1500 | 10*12 | 10 | 8000 |
| 10 | 270 | 8*12 | 13 | 4200 |
| | 560 | 8*12 | 10 | 5300 |
| | 820 | 10*12 | 10 | 5800 |
| | 1000 | 8*12 | 12 | 4300 |
| | 1000 | 10*12 | 10 | 5800 |
| | 1500 | 10*12 | 10 | 5800 |
| 16 | 270 | 8*8 | 16 | 5000 |
| | 330 | 8*12 | 13 | 5000 |
| | 470 | 8*12 | 13 | 5400 |
| | 560 | 10*12 | 13 | 5400 |
| | 1000 | 8*16 | 15 | 4100 |
| | 1000 | 10*12 | 13 | 5400 |
| 25 | 47 | 8*12 | 24 | 2500 |
| | 68 | 8*12 | 24 | 2500 |
| | 100 | 8*12 | 25 | 2500 |
| | 220 | 10*12 | 15 | 3500 |
| 35 | 220 | 10*12 | 16 | 3400 |
| | 330 | 10*16 | 16 | 3800 |
| | 470 | 10*20 | 12 | 4500 |
| 50 | 100 | 10*12 | 25 | 2800 |
| | 220 | 10*16 | 20 | 3600 |
| | 330 | 10*20 | 18 | 4500 |
| 63 | 100 | 10*12 | 30 | 2600 |
| | 150 | 10*16 | 20 | 3400 |
| | 220 | 10*20 | 20 | 4000 |
| | 330 | 13*20 | 20 | 4800 |

◆ Rated Ripple Current Coefficient

| Frequency(Hz) | 120Hz≤f< 1kHz | 1kHz≤f< 10kHz | 10kHz≤f< 100kHz | 100kHz≤f< 500kHz |
|---------------|---------------|---------------|-----------------|------------------|
| Coefficient | 0.05 | 0.30 | 0.70 | 1.00 |

