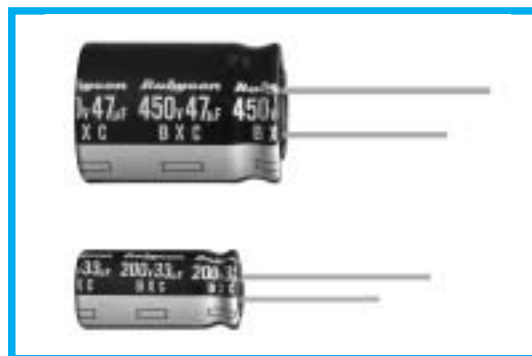


BXC SERIES
Load Life: 105°C 5000~10000 Hours.
◆ FEATURES

- High Ripple Current
- For Electronic Ballast
- RoHS compliance.


◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | |
|---|---|--|-----------------------------------|--|-----------------|--------------------|--|--------------------------|---------------|--------------------------|------------------------------------|--------------|------|------|------|----------|-------|
| Category Temperature Range | -25~+105°C | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 160~450V.DC | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">160~450V.DC</th> <th rowspan="2">I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)</th> </tr> <tr> <th>CV≤1000</th> <th>CV>1000</th> </tr> </thead> <tbody> <tr> <td>I=0.1CV+40μA (1minute)</td> <td>I=0.04CV+100μA (1minute)</td> <td></td> </tr> <tr> <td>I=0.03CV+15μA (5minutes)</td> <td>I=0.02CV+25μA (5minutes)</td> <td></td> </tr> </tbody> </table> | 160~450V.DC | | I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V) | CV≤1000 | CV>1000 | I=0.1CV+40μA (1minute) | I=0.04CV+100μA (1minute) | | I=0.03CV+15μA (5minutes) | I=0.02CV+25μA (5minutes) | | | | | | |
| 160~450V.DC | | I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V) | | | | | | | | | | | | | | | |
| CV≤1000 | CV>1000 | | | | | | | | | | | | | | | | |
| I=0.1CV+40μA (1minute) | I=0.04CV+100μA (1minute) | | | | | | | | | | | | | | | | |
| I=0.03CV+15μA (5minutes) | I=0.02CV+25μA (5minutes) | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tan δ) | <table border="1" style="width: 100%;"> <thead> <tr> <th>Rated Voltage (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td></td> </tr> </tbody> </table> | Rated Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 | (20°C, 120Hz) | tan δ | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | |
| Rated Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 | (20°C, 120Hz) | | | | | | | | | | |
| tan δ | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | | | | | | | | | | | |
| Endurance | <p>After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Capacitance Change</th> <th>Within ±20% of the initial value.</th> <th>Size</th> <th>Life Time (hrs)</th> </tr> </thead> <tbody> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>8×11.5, 10×12.5</td> <td>5000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>10×16, 10×20</td> <td>8000</td> </tr> <tr> <td></td> <td></td> <td>φ D≥12.5</td> <td>10000</td> </tr> </tbody> </table> | Capacitance Change | Within ±20% of the initial value. | Size | Life Time (hrs) | Dissipation Factor | Not more than 200% of the specified value. | 8×11.5, 10×12.5 | 5000 | Leakage Current | Not more than the specified value. | 10×16, 10×20 | 8000 | | | φ D≥12.5 | 10000 |
| Capacitance Change | Within ±20% of the initial value. | Size | Life Time (hrs) | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | 8×11.5, 10×12.5 | 5000 | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | 10×16, 10×20 | 8000 | | | | | | | | | | | | | | |
| | | φ D≥12.5 | 10000 | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1" style="width: 100%;"> <thead> <tr> <th>Rated Voltage (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td></td> </tr> </tbody> </table> | Rated Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 | (120Hz) | Z(-25°C)/Z(20°C) | 3 | 3 | 3 | 6 | 6 | 6 | |
| Rated Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 | (120Hz) | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 3 | 3 | 3 | 6 | 6 | 6 | | | | | | | | | | | |

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

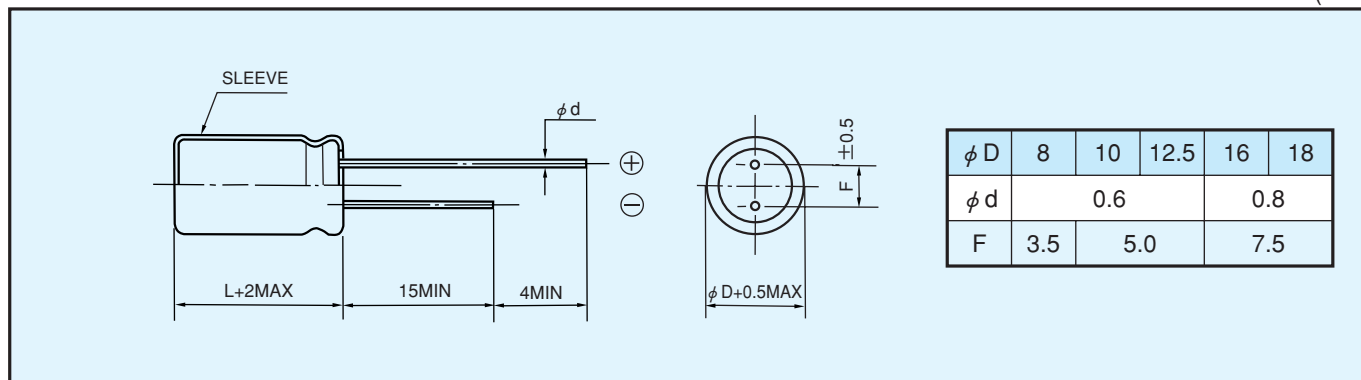
| Frequency (Hz) | 120 | 1k | 10k | ≥100k |
|----------------|------|------|-----|-------|
| Coefficient | | | | |
| 1~4.7 μF | 0.2 | 0.4 | 0.8 | 1.0 |
| 6.8~15 μF | 0.3 | 0.6 | 0.9 | 1.0 |
| 22~82 μF | 0.4 | 0.7 | 0.9 | 1.0 |
| 100~220 μF | 0.45 | 0.75 | 0.9 | 1.0 |

◆ PART NUMBER

| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□ | BXC | □□□□□ | □ | □□□ | □□ | D×L |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 100kHz)

| WV (V.DC) Cap (μF) | 160V (2C) | | 200V (2D) | | 250V (2E) | |
|------------------------------|------------------|--------|------------------|--------|-----------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple |
| 4.7 | | | | | 8×11.5 | 160 |
| 6.8 | | | | | 10×12.5 | 250 |
| 10 | 10×16 | 320 | 10×16 | 320 | 10×16 | 320 |
| 22 | 10×20 | 500 | 10×20 | 500 | 10×20 | 500 |
| 33 | 10×20 | 650 | 10×20 | 650 | 12.5×20 | 800 |
| 47 | 10×20 | 750 | 12.5×20 | 980 | 12.5×20 | 980 |
| 68 | 12.5×20 | 1180 | 12.5×25 16×20 | 1300 | 16×20 | 1300 |
| 82 | | | 16×20 | 1380 | 16×20 | 1380 |
| 100 | 12.5×25 16×20 | 1420 | 16×20 | 1420 | 16×25 | 1530 |
| 150 | 16×25 | 1890 | 16×25 | 1890 | 18×25 | 1940 |
| 220 | 18×25 | 2370 | | | | |

| WV (V.DC) Cap (μF) | 350V (2V) | | 400V (2G) | | 450V (2W) | |
|------------------------------|-----------|--------|-------------------|------------|-----------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple |
| 1 | | | 8×11.5 10×12.5 | 60 70 | | |
| 1.5 | | | 8×11.5 10×12.5 | 90 100 | | |
| 1.8 | | | 8×11.5 10×12.5 | 95 120 | | |
| 2.2 | | | 8×11.5 10×12.5 | 95 140 | | |
| 3.3 | | | 10×12.5 10×16 | 150 180 | | |
| 4.7 | 10×12.5 | 150 | 10×16 | 220 | 10×20 | 220 |
| 5.6 | 10×12.5 | 180 | 10×16 | 250 | 10×20 | 250 |
| 6.8 | 10×16 | 280 | 10×16 | 280 | 10×20 | 280 |
| 10 | 10×20 | 350 | 10×20 | 350 | 12.5×20 | 450 |
| 15 | | | 12.5×20 | 550 | 12.5×25 | 600 |
| 22 | 12.5×20 | 650 | 12.5×25 16×20 | 760 | 16×20 | 730 |
| 33 | 16×20 | 900 | 16×20 | 900 | 16×25 | 980 |
| 47 | 16×20 | 1080 | 16×25 18×20 | 1180 | 18×25 | 1200 |
| 68 | 18×25 | 1470 | 18×25 | 1470 | | |
| 82 | 18×25 | 1530 | | | | |