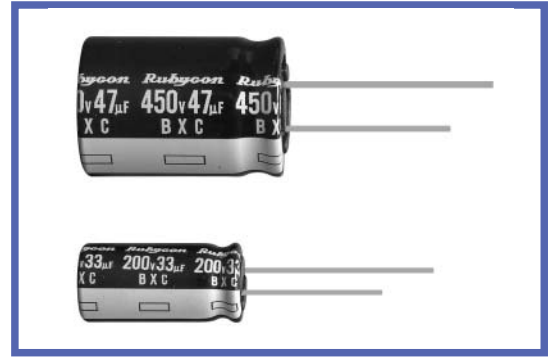


**BXC SERIES**
**UPGRADE**
**Load Life:105°C 8000~12000 hours.**
**◆ FEATURES**

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


**◆ SPECIFICATIONS**

| Items   | Characteristics  |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
|---|--|--------------------|-----------------------------------|------------------------|--|--------------------------|------------------------------------|---|-----------|------------------|-----------------|------|--------------|-------|------------|-------|------|---------------|
| Category Temperature Range                        | -25~+105°C   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Rated Voltage Range                               | 160~500V.DC  |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Capacitance Tolerance                             | ±20% (20°C, 120Hz)   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Leakage Current(MAX)                              | <table border="1"> <tr> <th>CV ≤1000</th> <th>CV &gt;1000</th> </tr> <tr> <td>I=0.1CV+40µA (1minute)</td> <td>I=0.04CV+100µA (1minute)</td> </tr> <tr> <td>I=0.03CV+15µA (5minutes)</td> <td>I=0.02CV+25µA (5minutes)</td> </tr> </table>  | CV ≤1000           | CV >1000                          | I=0.1CV+40µA (1minute) | I=0.04CV+100µA (1minute)                   | I=0.03CV+15µA (5minutes) | I=0.02CV+25µA (5minutes)           | I=Leakage Current(µA)<br>C=Rated Capacitance(µF)<br>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)   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| (tanδ)<br>Dissipation Factor(MAX)                 | <table border="1"> <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>500</th> </tr> <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>0.24</td> </tr> </table>  | Rated Voltage(V)   | 160                               | 200                    | 250  | 350                      | 400                                | 450   | 500       | tan δ            | 0.15            | 0.15 | 0.15         | 0.20  | 0.20       | 0.20  | 0.24 | (20°C, 120Hz) |
| Rated Voltage(V)                                  | 160  | 200                | 250                               | 350                    | 400  | 450                      | 500                                |   |           |                  |                 |      |              |       |            |       |      |               |
| tan δ   | 0.15   | 0.15               | 0.15                              | 0.20                   | 0.20                                       | 0.20                     | 0.24                               |   |           |                  |                 |      |              |       |            |       |      |               |
| Endurance   | After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
|   | <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table> | Capacitance Change | Within ±20% of the initial value. | Dissipation Factor     | Not more than 200% of the specified value. | Leakage Current          | Not more than the specified value. | <table border="1"> <tr> <th>Case Size</th> <th>Life Time</th> </tr> <tr> <td>8×11.5, 10×12.5</td> <td>8000</td> </tr> <tr> <td>10×16, 10×20</td> <td>10000</td> </tr> <tr> <td>φ D ≥ 12.5</td> <td>12000</td> </tr> </table> * 500WV:10000hrs | Case Size | Life Time        | 8×11.5, 10×12.5 | 8000 | 10×16, 10×20 | 10000 | φ D ≥ 12.5 | 12000 |      |               |
| Capacitance Change                                | Within ±20% of the initial value.  |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Dissipation Factor                                | Not more than 200% of the specified value.   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Leakage Current                                   | Not more than the specified value.   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Case Size   | Life Time  |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| 8×11.5, 10×12.5                                   | 8000   |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| 10×16, 10×20                                      | 10000  |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| φ D ≥ 12.5  | 12000  |                    |                                   |                        |  |                          |                                    |   |           |                  |                 |      |              |       |            |       |      |               |
| Low Temperature Stability<br>Impedance Ratio(MAX) | <table border="1"> <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>500</th> </tr> <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>6</td> </tr> </table>            | Rated Voltage(V)   | 160                               | 200                    | 250  | 350                      | 400                                | 450   | 500       | Z(-25°C)/Z(20°C) | 3               | 3    | 3            | 6     | 6          | 6     | 6    | (120Hz)       |
| Rated Voltage(V)                                  | 160  | 200                | 250                               | 350                    | 400  | 450                      | 500                                |   |           |                  |                 |      |              |       |            |       |      |               |
| Z(-25°C)/Z(20°C)                                  | 3  | 3                  | 3                                 | 6                      | 6  | 6                        | 6                                  |   |           |                  |                 |      |              |       |            |       |      |               |

**◆ MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

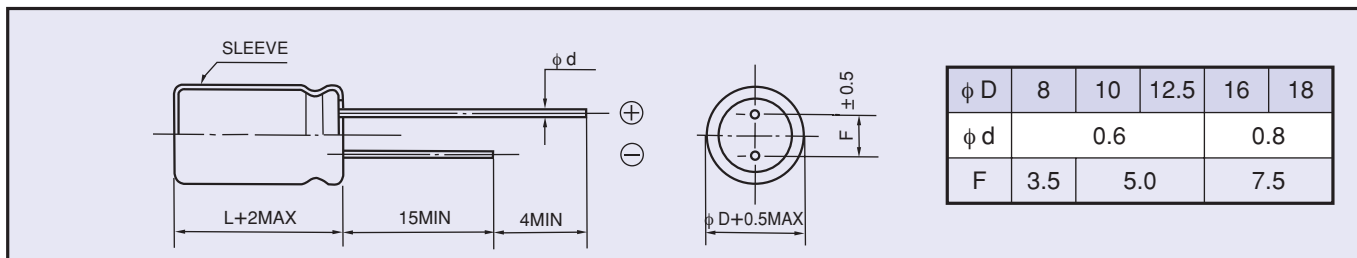
| Frequency (Hz) |            | 120  | 1k   | 10k | 100k ≤ |
|----------------|------------|------|------|-----|--------|
| Coefficient    | 1~5.6 µF   | 0.2  | 0.4  | 0.8 | 1.0    |
|                | 6.8~15 µF  | 0.3  | 0.6  | 0.9 | 1.0    |
|                | 22~82 µF   | 0.4  | 0.7  | 0.9 | 1.0    |
|                | 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**

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

| Cap( $\mu$ F) | WV (V.DC) | 160(2C)          |        | 200(2D)          |        | 250(2E)            |              | 350(2V) |        |
|---------------|-----------|------------------|--------|------------------|--------|--------------------|--------------|---------|--------|
|               |           | Size             | Ripple | Size             | Ripple | Size               | Ripple       | Size    | Ripple |
| 4.7           |           |                  |        |                  |        | 8×11.5             | 160          | 10×12.5 | 150    |
| 5.6           |           |                  |        |                  |        |                    |              | 10×12.5 | 180    |
| 6.8           |           |                  |        |                  |        | 10×12.5            | 250          | 10×16   | 280    |
| 10            |           | 10×16            | 320    | 10×16            | 320    | 10×16              | 320          | 10×20   | 350    |
| 22            |           | 10×20            | 500    | 10×20            | 500    | 10×16<br>10×20     | 470<br>500   | 12.5×20 | 650    |
| 33            |           | 10×20            | 650    | 10×20            | 650    | 12.5×16<br>12.5×20 | 760<br>800   | 16×20   | 900    |
| 47            |           | 10×20            | 750    | 12.5×20          | 980    | 12.5×20            | 980          | 16×20   | 1080   |
| 56            |           |                  |        |                  |        | 12.5×20<br>18×16   | 1080<br>960  |         |        |
| 68            |           | 12.5×20          | 1180   | 12.5×25<br>16×20 | 1300   | 12.5×25<br>16×20   | 1300<br>1300 | 18×25   | 1470   |
| 82            |           |                  |        | 16×20            | 1380   | 12.5×30<br>16×20   | 1500<br>1440 | 18×25   | 1530   |
| 100           |           | 12.5×25<br>16×20 | 1420   | 16×20            | 1420   | 16×25<br>18×20     | 1530<br>1440 |         |        |
| 120           |           |                  |        |                  |        | 18×20              | 1500         |         |        |
| 150           |           | 16×25            | 1890   | 16×25            | 1890   | 18×25              | 1960         |         |        |
| 220           |           | 18×25            | 2370   |                  |        |                    |              |         |        |

| Cap( $\mu$ F) | WV (V.DC) | 400(2G)           |            | 450(2W)                     |                   | 500(2H)                   |        |
|---------------|-----------|-------------------|------------|-----------------------------|-------------------|---------------------------|--------|
|               |           | Size              | Ripple     | Size                        | Ripple            | Size                      | Ripple |
| 1             |           | 8×11.5<br>10×12.5 | 60<br>70   |                             |                   |                           |        |
| 1.5           |           | 8×11.5<br>10×12.5 | 90<br>100  |                             |                   |                           |        |
| 1.8           |           | 8×11.5<br>10×12.5 | 95<br>120  |                             |                   |                           |        |
| 2.2           |           | 8×11.5<br>10×12.5 | 95<br>140  |                             |                   |                           |        |
| 3.3           |           | 10×12.5<br>10×16  | 150<br>180 |                             |                   |                           |        |
| 4.7           |           | 10×16             | 220        | 10×16<br>10×20              | 180<br>220        |                           |        |
| 5.6           |           | 10×16             | 250        | 10×16<br>10×20              | 200<br>250        |                           |        |
| 6.8           |           | 10×16             | 280        | 10×16<br>10×20              | 230<br>280        |                           |        |
| 8.2           |           |                   |            | 10×20                       | 280               |                           |        |
| 10            |           | 10×20             | 350        | 10×20<br>12.5×16<br>12.5×20 | 330<br>360<br>450 | 12.5×20                   | 320    |
| 15            |           | 12.5×20           | 550        | 12.5×20<br>12.5×25<br>16×16 | 450<br>600<br>600 | 12.5×25<br>16×20          | 440    |
| 22            |           | 12.5×25<br>16×20  | 760        | 12.5×25<br>16×20            | 600<br>730        | 12.5×35<br>16×25<br>18×20 | 560    |
| 33            |           | 16×20             | 900        | 16×20<br>16×25<br>18×20     | 730<br>980<br>780 | 16×31.5<br>18×25          | 700    |
| 47            |           | 16×25<br>18×20    | 1180       | 18×25                       | 1200              | 18×31.5                   | 880    |
| 68            |           | 18×25             | 1470       |                             |                   |                           |        |