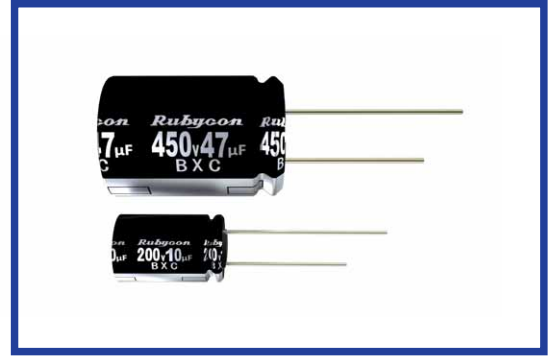


**BXC SERIES**
**Load Life : 105°C 8000~12000 hours**

\*For LED Lighting.


**◆SPECIFICATIONS**

| Items  | Characteristics   |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
|--|---|---------------------|-----------------------------------|----------------------------|--|------------------------------|------------------------------------|--|-----------|------------------|-----------------|------|--------------|-------|-----------|-------|------|---------------|
| Category Temperature Range                     | -25~+105°C  |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
| Rated Voltage Range                            | 160~500Vdc  |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
| 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 = Capacitance(µF)<br>V = Rated Voltage(Vdc)   |           |                  |                 |      |              |       |           |       |      |               |
|  | 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) (tanδ)                 | <table border="1"> <tr> <th>Rated Voltage (Vdc)</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>tanδ</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 (Vdc) | 160                               | 200                        | 250  | 350                          | 400                                | 450  | 500       | tanδ             | 0.15            | 0.15 | 0.15         | 0.20  | 0.20      | 0.20  | 0.24 | (20°C, 120Hz) |
| Rated Voltage (Vdc)                            | 160   | 200                 | 250                               | 350                        | 400  | 450                          | 500                                |  |           |                  |                 |      |              |       |           |       |      |               |
| tanδ   | 0.15  | 0.15                | 0.15                              | 0.20                       | 0.20                                       | 0.20                         | 0.24                               |  |           |                  |                 |      |              |       |           |       |      |               |
| Endurance                                      | After applying rated voltage with rated ripple current for specified time at 105°C, 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 (hrs)</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>φD ≥ 12.5</td> <td>12000</td> </tr> </table> ※500Vdc:10000hrs | Case Size | Life Time (hrs)  | 8×11.5, 10×12.5 | 8000 | 10×16, 10×20 | 10000 | φD ≥ 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 (hrs)   |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
| 8×11.5, 10×12.5                                | 8000  |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
| 10×16, 10×20                                   | 10000   |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
| φD ≥ 12.5                                      | 12000   |                     |                                   |                            |  |                              |                                    |  |           |                  |                 |      |              |       |           |       |      |               |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <th>Rated Voltage (Vdc)</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 (Vdc) | 160                               | 200                        | 250  | 350                          | 400                                | 450  | 500       | Z(-25°C)/Z(20°C) | 3               | 3    | 3            | 6     | 6         | 6     | 6    | (120Hz)       |
| Rated Voltage (Vdc)                            | 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 (Hz) |           | 120  | 1k   | 10k  | 100k ≤ |
|----------------|-----------|------|------|------|--------|
| Coefficient    | 1~5.6µF   | 0.20 | 0.40 | 0.80 | 1.00   |
|                | 6.8~18µF  | 0.30 | 0.60 | 0.90 | 1.00   |
|                | 22~82µF   | 0.40 | 0.70 | 0.90 | 1.00   |
|                | 100~220µF | 0.45 | 0.75 | 0.90 | 1.00   |

**◆OPTION**

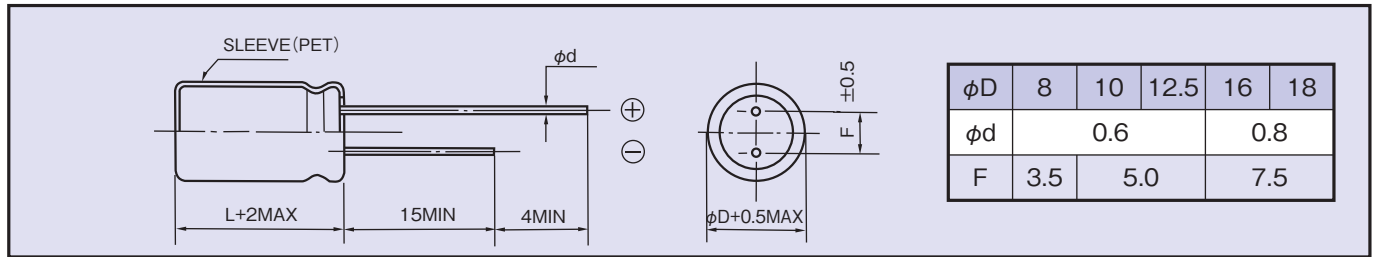
|            | Code |
|------------|------|
| PET Sleeve | EFC  |

**◆PART NUMBER**

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

**◆ DIMENSIONS**

(mm)


**◆ STANDARD SIZE**

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

| Cap( $\mu F$ ) \ Vdc | 160              |        | 200              |        | 250                |              | 350     |        |
|----------------------|------------------|--------|------------------|--------|--------------------|--------------|---------|--------|
|                      | 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    |
| 18                   |                  |        |                  |        |                    |              | 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         | 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   | 18×25            | 2370   |                    |              |         |        |

| Cap( $\mu F$ ) \ Vdc | 400               |            | 450                         |                   | 500                       |        |
|----------------------|-------------------|------------|-----------------------------|-------------------|---------------------------|--------|
|                      | 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        | 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       |                             |                   |                           |        |

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