

BXC シリーズ  
SERIES

105°C 8000~12000時間品  
Load Life : 105°C 8000~12000 hours

・LED照明用電源回路に最適。  
For LED Lighting.

RoHS  
compliance



◆規格表 / SPECIFICATIONS

| 項目 Items   | 特性 Characteristics  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
|--|---|-------------------------------|---|---|---|--|--|---|---------------------|-----------------------|-----------------|------|--------------|-------|-----------|-------|------|---------------|
| カテゴリ温度範囲<br>Category Temperature Range                                   | -25~+105°C  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 定格電圧範囲<br>Rated Voltage Range  | 160~500Vdc  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 静電容量許容差<br>Capacitance Tolerance   | ±20% (20°C, 120Hz)  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 漏れ電流<br>Leakage Current (MAX)  | <table border="1"> <tr> <th>CV ≤ 1000</th> <th>CV &gt; 1000</th> </tr> <tr> <td>I = 0.1CV + 40µA 以下 (1分値)<br/>I = 0.1CV + 40µA (1minute)</td> <td>I = 0.04CV + 100µA 以下 (1分値)<br/>I = 0.04CV + 100µA (1minute)</td> </tr> <tr> <td>I = 0.03CV + 15µA 以下 (5分値)<br/>I = 0.03CV + 15µA (5minutes)</td> <td>I = 0.02CV + 25µA 以下 (5分値)<br/>I = 0.02CV + 25µA (5minutes)</td> </tr> </table> | CV ≤ 1000                     | CV > 1000                                       | I = 0.1CV + 40µA 以下 (1分値)<br>I = 0.1CV + 40µA (1minute) | I = 0.04CV + 100µA 以下 (1分値)<br>I = 0.04CV + 100µA (1minute) | I = 0.03CV + 15µA 以下 (5分値)<br>I = 0.03CV + 15µA (5minutes) | I = 0.02CV + 25µA 以下 (5分値)<br>I = 0.02CV + 25µA (5minutes) | I = 漏れ電流 (µA)<br>Leakage Current<br>C = 静電容量 (µF)<br>Capacitance<br>V = 定格電圧 (Vdc)<br>Rated Voltage   |                     |                       |                 |      |              |       |           |       |      |               |
| CV ≤ 1000  | CV > 1000   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| I = 0.1CV + 40µA 以下 (1分値)<br>I = 0.1CV + 40µA (1minute)                  | I = 0.04CV + 100µA 以下 (1分値)<br>I = 0.04CV + 100µA (1minute)   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| I = 0.03CV + 15µA 以下 (5分値)<br>I = 0.03CV + 15µA (5minutes)               | I = 0.02CV + 25µA 以下 (5分値)<br>I = 0.02CV + 25µA (5minutes)  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 損失角の正接 (tanδ)<br>Dissipation Factor (MAX)                                | <table border="1"> <tr> <th>定格電圧 (Vdc)<br/>Rated Voltage</th> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <th>tanδ</th> <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>  | 定格電圧 (Vdc)<br>Rated Voltage   | 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) |
| 定格電圧 (Vdc)<br>Rated Voltage  | 160   | 200                           | 250   | 350   | 400   | 450  | 500  |   |                     |                       |                 |      |              |       |           |       |      |               |
| tanδ   | 0.15  | 0.15                          | 0.15  | 0.20  | 0.20  | 0.20   | 0.24   |   |                     |                       |                 |      |              |       |           |       |      |               |
| 耐久性<br>Endurance   | 105°C 中で右表の時間定格電圧 (リップル重量) 印加後、下記項目を満足すること。<br>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> <th>静電容量変化率<br/>Capacitance Change</th> <td>初期値の±20%以内<br/>Within ±20% of the initial value.</td> </tr> <tr> <th>損失角の正接<br/>Dissipation Factor</th> <td>規格値の200%以下<br/>Not more than 200% of the specified value.</td> </tr> <tr> <th>漏れ電流<br/>Leakage Current</th> <td>規格値以下<br/>Not more than the specified value.</td> </tr> </table>                        | 静電容量変化率<br>Capacitance Change | 初期値の±20%以内<br>Within ±20% of the initial value. | 損失角の正接<br>Dissipation Factor                            | 規格値の200%以下<br>Not more than 200% of the specified value.    | 漏れ電流<br>Leakage Current                                    | 規格値以下<br>Not more than the specified value.                | <table border="1"> <tr> <th>ケースサイズ<br/>Case Size</th> <th>時間 (hrs)<br/>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>φD ≥ 12.5</td> <td>12000</td> </tr> </table> | ケースサイズ<br>Case Size | 時間 (hrs)<br>Life Time | 8×11.5, 10×12.5 | 8000 | 10×16, 10×20 | 10000 | φD ≥ 12.5 | 12000 |      |               |
| 静電容量変化率<br>Capacitance Change  | 初期値の±20%以内<br>Within ±20% of the initial value.   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 損失角の正接<br>Dissipation Factor   | 規格値の200%以下<br>Not more than 200% of the specified value.  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 漏れ電流<br>Leakage Current  | 規格値以下<br>Not more than the specified value.   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| ケースサイズ<br>Case Size  | 時間 (hrs)<br>Life Time   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 8×11.5, 10×12.5  | 8000  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 10×16, 10×20   | 10000   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| φD ≥ 12.5  | 12000   |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
|  | *但し、500Vdc品は10000時間<br>500Vdc:10000hrs  |                               |   |   |   |  |  |   |                     |                       |                 |      |              |       |           |       |      |               |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio (MAX) | <table border="1"> <tr> <th>定格電圧 (Vdc)<br/>Rated Voltage</th> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <th>Z(-25°C) / Z(20°C)</th> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>   | 定格電圧 (Vdc)<br>Rated Voltage   | 160   | 200   | 250   | 350  | 400  | 450   | 500                 | Z(-25°C) / Z(20°C)    | 3               | 3    | 3            | 6     | 6         | 6     | 6    | (120Hz)       |
| 定格電圧 (Vdc)<br>Rated Voltage  | 160   | 200                           | 250   | 350   | 400   | 450  | 500  |   |                     |                       |                 |      |              |       |           |       |      |               |
| Z(-25°C) / Z(20°C)   | 3   | 3                             | 3   | 6   | 6   | 6  | 6  |   |                     |                       |                 |      |              |       |           |       |      |               |

◆リップル電流補正係数 / MULTIPLIER FOR RIPPLE CURRENT

| 周波数 (Hz)<br>Frequency | 120  | 1k   | 10k  | 100k ≤ |
|-----------------------|------|------|------|--------|
| 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   |

◆副記号 / OPTION

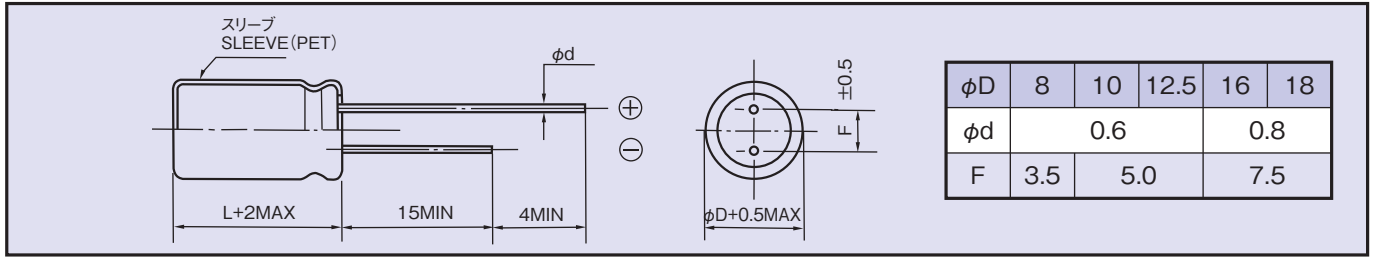
| 副記号                | 記号 Code |
|--------------------|---------|
| PETスリーブ PET Sleeve | EFC     |

◆呼称方法 / PART NUMBER

|                       |                 |                     |                                  |               |                         |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□                   | BXC             | □□□□□               | M                                | □□□           | □□                      | D×L                 |
| 定格電圧<br>Rated Voltage | シリーズ名<br>Series | 静電容量<br>Capacitance | 静電容量許容差<br>Capacitance Tolerance | 副記号<br>Option | リード加工記号<br>Lead Forming | ケースサイズ<br>Case Size |

◆寸法図 / DIMENSIONS

(mm)



◆標準品一覧表 / STANDARD SIZE

Size φD×L(mm), Rated Ripple Current (mA r.m.s./105°C, 100kHz)

| 定格電圧<br>Vdc<br>静電容量<br>Cap(μF) | 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   |                    |              |         |        |

| 定格電圧<br>Vdc<br>静電容量<br>Cap(μF) | 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       |                             |                   |                           |        |