

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 Category Temperature Range | -25~+105°C | | | | | | | | | | | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 160~500Vdc | | | | | | | | | | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current (MAX) | <table border="1"> <tr> <th>CV ≤ 1000</th> <th>CV > 1000</th> </tr> <tr> <td>I = 0.1CV + 40µA 以下 (1分値) I = 0.1CV + 40µA (1minute)</td> <td>I = 0.04CV + 100µA 以下 (1分値) I = 0.04CV + 100µA (1minute)</td> </tr> <tr> <td>I = 0.03CV + 15µA 以下 (5分値) I = 0.03CV + 15µA (5minutes)</td> <td>I = 0.02CV + 25µA 以下 (5分値) I = 0.02CV + 25µA (5minutes)</td> </tr> </table> | CV ≤ 1000 | CV > 1000 | I = 0.1CV + 40µA 以下 (1分値) I = 0.1CV + 40µA (1minute) | I = 0.04CV + 100µA 以下 (1分値) I = 0.04CV + 100µA (1minute) | I = 0.03CV + 15µA 以下 (5分値) I = 0.03CV + 15µA (5minutes) | I = 0.02CV + 25µA 以下 (5分値) I = 0.02CV + 25µA (5minutes) | I = 漏れ電流 (µA) Leakage Current C = 静電容量 (µF) Capacitance V = 定格電圧 (Vdc) Rated Voltage | | | | | | | | | | |
| CV ≤ 1000 | CV > 1000 | | | | | | | | | | | | | | | | | |
| I = 0.1CV + 40µA 以下 (1分値) I = 0.1CV + 40µA (1minute) | I = 0.04CV + 100µA 以下 (1分値) I = 0.04CV + 100µA (1minute) | | | | | | | | | | | | | | | | | |
| I = 0.03CV + 15µA 以下 (5分値) I = 0.03CV + 15µA (5minutes) | I = 0.02CV + 25µA 以下 (5分値) I = 0.02CV + 25µA (5minutes) | | | | | | | | | | | | | | | | | |
| 損失角の正接 (tanδ) Dissipation Factor (MAX) | <table border="1"> <tr> <th>定格電圧 (Vdc) 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> (20°C, 120Hz) | | 定格電圧 (Vdc) Rated Voltage | 160 | 200 | 250 | 350 | 400 | 450 | 500 | tanδ | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | 0.24 |
| 定格電圧 (Vdc) 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 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。 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 Capacitance Change</th> <td>初期値の±20%以内 Within ±20% of the initial value.</td> </tr> <tr> <th>損失角の正接 Dissipation Factor</th> <td>規格値の200%以下 Not more than 200% of the specified value.</td> </tr> <tr> <th>漏れ電流 Leakage Current</th> <td>規格値以下 Not more than the specified value.</td> </tr> </table> | 静電容量変化率 Capacitance Change | 初期値の±20%以内 Within ±20% of the initial value. | 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | <table border="1"> <tr> <th>ケースサイズ Case Size</th> <th>時間 (hrs) 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> ※但し、500Vdc品は10000時間 500Vdc:10000hrs | ケースサイズ Case Size | 時間 (hrs) 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 Capacitance Change | 初期値の±20%以内 Within ±20% of the initial value. | | | | | | | | | | | | | | | | | |
| 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | | | | | | | | | | | | | | | | | |
| ケースサイズ Case Size | 時間 (hrs) Life Time | | | | | | | | | | | | | | | | | |
| 8×11.5, 10×12.5 | 8000 | | | | | | | | | | | | | | | | | |
| 10×16, 10×20 | 10000 | | | | | | | | | | | | | | | | | |
| φD ≥ 12.5 | 12000 | | | | | | | | | | | | | | | | | |
| 低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX) | <table border="1"> <tr> <th>定格電圧 (Vdc) 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> (120Hz) | | 定格電圧 (Vdc) Rated Voltage | 160 | 200 | 250 | 350 | 400 | 450 | 500 | Z(-25°C) / Z(20°C) | 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| 定格電圧 (Vdc) 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) 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 Rated Voltage | シリーズ名 Series | 静電容量 Capacitance | 静電容量許容差 Capacitance Tolerance | 副記号 Option | リード加工記号 Lead Forming | ケースサイズ 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 Vdc 静電容量 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 10×20 | 470 500 | 12.5×20 | 650 |
| 33 | 10×20 | 650 | 10×20 | 650 | 12.5×16 12.5×20 | 760 800 | 16×20 | 900 |
| 47 | 10×20 | 750 | 12.5×20 | 980 | 12.5×20 | 980 | 16×20 | 1080 |
| 56 | | | | | 12.5×20 18×16 | 1080 960 | | |
| 68 | 12.5×20 | 1180 | 12.5×25 16×20 | 1300 | 12.5×25 16×20 | 1300 | 18×25 | 1470 |
| 82 | | | 16×20 | 1380 | 12.5×30 16×20 | 1500 1440 | 18×25 | 1530 |
| 100 | 12.5×25 16×20 | 1420 | 16×20 | 1420 | 16×25 18×20 | 1530 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 Vdc 静電容量 Cap(μF) | 400 | | 450 | | 500 | |
|--------------------------------|-------------------|------------|-----------------------------|-------------------|---------------------------|--------|
| | 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 | 10×16 | 220 | 10×16 10×20 | 180 220 | | |
| 5.6 | 10×16 | 250 | 10×16 10×20 | 200 250 | | |
| 6.8 | 10×16 | 280 | 10×16 10×20 | 230 280 | | |
| 8.2 | | | 10×20 | 280 | | |
| 10 | 10×20 | 350 | 10×20 12.5×16 12.5×20 | 330 360 450 | 12.5×20 | 320 |
| 15 | 12.5×20 | 550 | 12.5×20 12.5×25 16×16 | 450 600 | 12.5×25 16×20 | 440 |
| 22 | 12.5×25 16×20 | 760 | 12.5×25 16×20 | 600 730 | 12.5×35 16×25 18×20 | 560 |
| 33 | 16×20 | 900 | 16×20 16×25 18×20 | 730 980 780 | 16×31.5 18×25 | 700 |
| 47 | 16×25 18×20 | 1180 | 18×25 | 1200 | 18×31.5 | 880 |
| 68 | 18×25 | 1470 | | | | |