

## BXF SERIES

**Load Life : 105°C 10000 hours.**

### ◆FEATURES

- 20mm height Max.
- High Ripple Current.
- For Electronic Ballast, Power Supply.
- RoHS compliance.



### ◆SPECIFICATIONS

| Items                                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|--|----------------------|-----------------------------------|-----|-----|-----|-----|-----|--------------------|--------------------------------------------|------|------|------|------|------|-----------------|------------------------------------|--|--|--|--|--|
| Category Temperature Range                        | -25~+105℃                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Rated Voltage Range                               | 160~450V.DC                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Capacitance Tolerance                             | ±20% (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Leakage Current(MAX)                              | I=0.04CV+100μA (After 1 minute application of rated voltage)<br>I=0.02CV+25μA (After 5 minutes application of rated voltage)<br><br>I=Leakage Current(μA)   C=Capacitance(μF)   V=Rated Voltage(V)                                                                                                                                                                                                                                     |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Dissipation Factor(MAX)<br>(tanδ)                 | <table><tr><td>Rated Voltage<br/>(V)</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></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></tr></table> (20℃, 120Hz)                                                                                                                                                                                        |      |      |      |      |      |  | Rated Voltage<br>(V) | 160                               | 200 | 250 | 350 | 400 | 450 | tanδ               | 0.15                                       | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 |                 |                                    |  |  |  |  |  |
| Rated Voltage<br>(V)                              | 160                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200  | 250  | 350  | 400  | 450  |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| tanδ                                              | 0.15                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Endurance                                         | After applying voltage with rated ripple current for 10000 hours at 105℃, the capacitors shall meet the following requirement.<br><table><tr><td>Capacitance Change</td><td colspan="6">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">Not more than the specified value.</td></tr></table> |      |      |      |      |      |  | Capacitance Change   | Within ±25% of the initial value. |     |     |     |     |     | Dissipation Factor | Not more than 200% of the specified value. |      |      |      |      |      | Leakage Current | Not more than the specified value. |  |  |  |  |  |
| Capacitance Change                                | Within ±25% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Dissipation Factor                                | Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Leakage Current                                   | Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |      |      |      |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Low Temperature Stability<br>Impedance Ratio(MAX) | <table><tr><td>Rated Voltage<br/>(V)</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>3</td><td>3</td><td>6</td><td>6</td><td>6</td></tr></table> (120Hz)                                                                                                                                                                                                     |      |      |      |      |      |  | Rated Voltage<br>(V) | 160                               | 200 | 250 | 350 | 400 | 450 | Z(-25℃)/Z(20℃)     | 3                                          | 3    | 3    | 6    | 6    | 6    |                 |                                    |  |  |  |  |  |
| Rated Voltage<br>(V)                              | 160                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200  | 250  | 350  | 400  | 450  |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |
| Z(-25℃)/Z(20℃)                                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3    | 3    | 6    | 6    | 6    |  |                      |                                   |     |     |     |     |     |                    |                                            |      |      |      |      |      |                 |                                    |  |  |  |  |  |

### ◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) |           | 120  | 1k   | 10k  | 100k≤ |
|----------------|-----------|------|------|------|-------|
| Coefficient    | 10~18μF   | 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

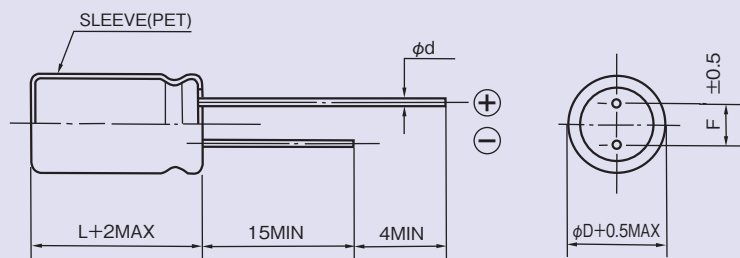
|            | Code  |
|------------|-------|
| PET Sleeve | Blank |

### ◆PART NUMBER

|                      |        |                      |                       |                      |                      |           |
|----------------------|--------|----------------------|-----------------------|----------------------|----------------------|-----------|
| <input type="text"/> | BXF    | <input type="text"/> | M                     | <input type="text"/> | <input type="text"/> | D×L       |
| Rated Voltage        | Series | Capacitance          | Capacitance Tolerance | Option               | Lead Forming         | Case Size |

**◆DIMENSIONS**

(mm)



| $\phi D$ | 10  | 12.5 | 16  | 18 |
|----------|-----|------|-----|----|
| $\phi d$ | 0.6 |      | 0.8 |    |
| F        | 5.0 |      | 7.5 |    |

**◆STANDARD SIZE**

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

| V.DC        | Cap( $\mu F$ ) | Size    | Ripple |
|-------------|----------------|---------|--------|
| 160<br>(2C) | 47             | 10×16   | 650    |
|             | 68             | 10×20   | 800    |
|             | 82             | 16×16   | 1350   |
|             | 100            | 12.5×20 | 1350   |
|             | 100            | 18×16   | 1550   |
|             | 180            | 16×20   | 1800   |
|             | 220            | 18×20   | 2250   |
| 200<br>(2D) | 33             | 10×16   | 650    |
|             | 47             | 10×20   | 800    |
|             | 56             | 16×16   | 1350   |
|             | 68             | 12.5×20 | 1350   |
|             | 82             | 18×16   | 1550   |
|             | 120            | 16×20   | 1800   |
|             | 180            | 18×20   | 2250   |
| 250<br>(2E) | 27             | 10×16   | 650    |
|             | 39             | 10×20   | 800    |
|             | 47             | 16×16   | 1350   |
|             | 56             | 12.5×20 | 1350   |
|             | 56             | 18×16   | 1550   |
|             | 100            | 16×20   | 1800   |
|             | 120            | 18×20   | 2250   |

| V.DC        | Cap( $\mu F$ ) | Size    | Ripple |
|-------------|----------------|---------|--------|
| 350<br>(2V) | 18             | 10×16   | 450    |
|             | 22             | 10×20   | 500    |
|             | 27             | 16×16   | 780    |
|             | 33             | 12.5×20 | 850    |
|             | 33             | 18×16   | 960    |
|             | 56             | 16×20   | 1200   |
|             | 82             | 18×20   | 1300   |
|             |                |         |        |
| 400<br>(2G) | 12             | 10×16   | 450    |
|             | 18             | 10×20   | 500    |
|             | 18             | 16×16   | 780    |
|             | 27             | 12.5×20 | 850    |
|             | 27             | 18×16   | 960    |
|             | 47             | 16×20   | 1200   |
|             | 56             | 18×20   | 1300   |
|             |                |         |        |
| 450<br>(2W) | 10             | 10×16   | 350    |
|             | 15             | 10×20   | 400    |
|             | 15             | 16×16   | 700    |
|             | 22             | 12.5×20 | 700    |
|             | 22             | 18×16   | 850    |
|             | 33             | 16×20   | 970    |
|             | 47             | 18×20   | 1170   |