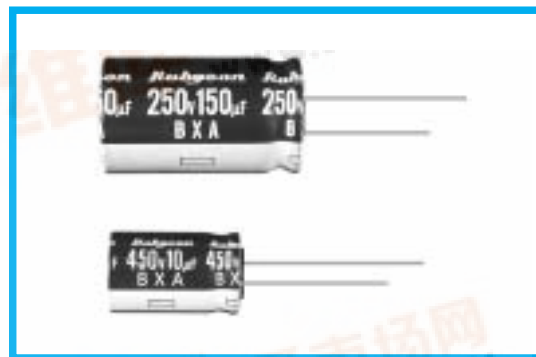


## BXA SERIES

**Load Life:105°C 12000 Hours.( ϕ 10:10000 Hours)**

## ◆ FEATURES

- 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+100 μA (After 1 minute application of rated voltage)<br>I=0.02CV+25 μA (After 5 minutes application of rated voltage)<br>I=Leakage Current( μA)                      C=Rated Capacitance( μF)                      V=Rated Voltage(V)                                                                                                                                                                                                                                                                                                         |      |      |          |                    |      |  |                      |                                   |     |     |          |                    |                    |                                            |      |      |        |       |                 |                                    |  |  |          |       |
| Dissipation Factor(MAX)<br>(tan δ )               | <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>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></tr></table> (20℃, 120Hz)                                                                                                                                                                                                                                                                                                       |      |      |          |                    |      |  | Rated Voltage<br>(V) | 160                               | 200 | 250 | 350      | 400                | 450                | tan δ                                      | 0.15 | 0.15 | 0.15   | 0.20  | 0.20            | 0.20                               |  |  |          |       |
| Rated Voltage<br>(V)                              | 160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200  | 250  | 350      | 400                | 450  |  |                      |                                   |     |     |          |                    |                    |                                            |      |      |        |       |                 |                                    |  |  |          |       |
| tan δ                                             | 0.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.15 | 0.15 | 0.20     | 0.20               | 0.20 |  |                      |                                   |     |     |          |                    |                    |                                            |      |      |        |       |                 |                                    |  |  |          |       |
| Endurance                                         | After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="3">Within ±20% of the initial value.</td><td>Case Dia</td><td>Life Time<br/>(hrs)</td></tr><tr><td>Dissipation Factor</td><td colspan="3">Not more than 200% of the specified value.</td><td>φ D=10</td><td>10000</td></tr><tr><td>Leakage Current</td><td colspan="3">Not more than the specified value.</td><td>φ D≥12.5</td><td>12000</td></tr></table> |      |      |          |                    |      |  | Capacitance Change   | Within ±20% of the initial value. |     |     | Case Dia | Life Time<br>(hrs) | Dissipation Factor | Not more than 200% of the specified value. |      |      | φ D=10 | 10000 | Leakage Current | Not more than the specified value. |  |  | φ D≥12.5 | 12000 |
| Capacitance Change                                | Within ±20% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      | Case Dia | Life Time<br>(hrs) |      |  |                      |                                   |     |     |          |                    |                    |                                            |      |      |        |       |                 |                                    |  |  |          |       |
| Dissipation Factor                                | Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      | φ D=10   | 10000              |      |  |                      |                                   |     |     |          |                    |                    |                                            |      |      |        |       |                 |                                    |  |  |          |       |
| Leakage Current                                   | Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      | φ D≥12.5 | 12000              |      |  |                      |                                   |     |     |          |                    |                    |                                            |      |      |        |       |                 |                                    |  |  |          |       |
| 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 coefficient

|                |      |      |      |             |
|----------------|------|------|------|-------------|
| Frequency (Hz) | 120  | 1k   | 10k  | 100k $\leq$ |
| Coefficient    | 0.50 | 0.80 | 0.90 | 1.00        |

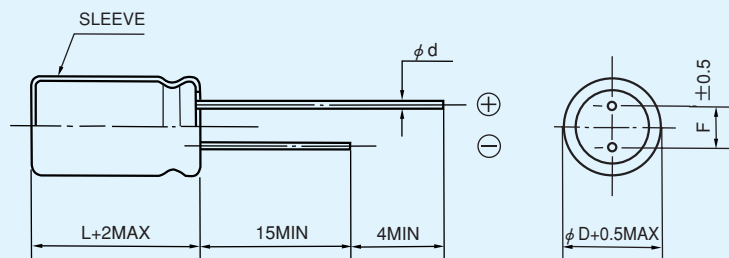
◆PART NUMBER

|               |            |                   |                       |        |               |
|---------------|------------|-------------------|-----------------------|--------|---------------|
|               |            |                   |                       |        |               |
| Rated Voltage | BXA Series | Rated Capacitance | Capacitance Tolerance | Option | D×L Case Size |



**◆DIMENSIONS**

(mm)



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

**◆STANDARD SIZE, RATED RIPPLE CURRENT**

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

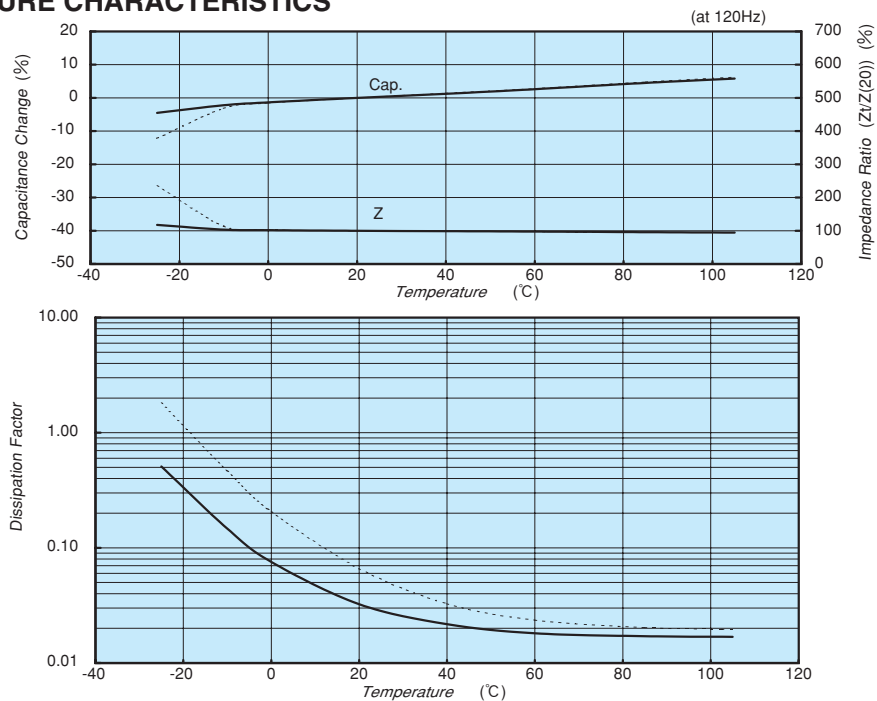
| WV (V.DC)<br>Cap ( $\mu F$ ) | 160V (2C)        |        | 200V (2D)        |        | 250V (2E)        |        |
|------------------------------|------------------|--------|------------------|--------|------------------|--------|
|                              | Size             | Ripple | Size             | Ripple | Size             | Ripple |
| 10                           | 10×16            | 250    | 10×16            | 250    | 10×20            | 280    |
| 22                           | 10×20            | 500    | 10×20            | 500    | 12.5×20          | 600    |
| 33                           | 10×20            | 500    | 12.5×20          | 600    | 12.5×20          | 600    |
| 47                           | 12.5×20          | 660    | 12.5×20          | 660    | 12.5×25<br>16×20 | 720    |
| 68                           | 12.5×25<br>16×20 | 760    | 12.5×25<br>16×20 | 760    | 16×25<br>18×20   | 920    |
| 100                          | 16×25<br>18×20   | 1120   | 16×25<br>18×20   | 1120   | 16×31.5<br>18×25 | 1200   |
| 150                          | 16×31.5<br>18×25 | 1360   | 16×31.5<br>18×25 | 1360   | 18×31.5          | 1500   |
| 220                          | 16×31.5<br>18×25 | 1400   | 18×31.5          | 1700   |                  |        |

| WV (V.DC)<br>Cap ( $\mu F$ ) | 350V (2V)        |        | 400V (2G)        |        | 450V (2W)        |        |
|------------------------------|------------------|--------|------------------|--------|------------------|--------|
|                              | Size             | Ripple | Size             | Ripple | Size             | Ripple |
| 6.8                          | 10×16            | 220    | 10×16            | 220    | 10×20            | 150    |
| 10                           | 10×20            | 280    | 10×20            | 280    | 12.5×20          | 320    |
| 22                           | 12.5×20          | 350    | 12.5×25<br>16×20 | 430    | 16×25<br>18×20   | 560    |
| 33                           | 16×20            | 500    | 16×25<br>18×20   | 640    | 16×31.5<br>18×25 | 700    |
| 47                           | 16×25<br>18×20   | 660    | 16×31.5<br>18×25 | 840    | 18×31.5          | 880    |
| 68                           | 16×31.5<br>18×25 | 850    | 18×31.5          | 1000   |                  |        |

## ◆ CHARACTERISTIC DATA

———— 250 BXA 68 M 16×25  
 - - - - - 450 BXA 22 M 16×25

### ・ TEMPERATURE CHARACTERISTICS



### ・ ENDURANCE

