

# CE-BE Series

Small, Low Profile

3.9mm Height



- Solvent proof (within 2 minutes)

CE-BD (P.35)  
↓ Low Profile  
CE-BE

## Specifications

| Items                              | Condition  | Specifications                          |                                       |      |      |      |      |      |   |
|------------------------------------|--|---|---------------------------------------|------|------|------|------|------|---|
| Rated voltage (V)                  | —  | 4                                       | 6.3                                   | 10   | 16   | 25   | 35   | 50   |   |
| Surge voltage (V)                  | Room temperature   | 5.0                                     | 8.0                                   | 13   | 20   | 32   | 44   | 63   |   |
| Category temperature range (°C)    | —  | -40 to +85                              |                                       |      |      |      |      |      |   |
| Capacitance tolerance (%)          | 120Hz/20°C   | M : ±20                                 |                                       |      |      |      |      |      |   |
| Dissipation Factor (tan δ)         | tanδ (max) 120Hz/20°C  | 0.40                                    | 0.30                                  | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 |   |
| Leakage current (LC)               | μA/after 2minutes (max)  | The greater value of either 0.01CV or 3 |                                       |      |      |      |      |      |   |
| Impedance ratio at low temperature | Based the value at 120Hz, +20°C  | -25°C Z/Z <sub>20°C</sub>               | 7                                     | 4    | 3    | 2    | 2    | 2    | 2 |
|                                    |  | -40°C Z/Z <sub>20°C</sub>               | 15                                    | 10   | 8    | 6    | 4    | 4    | 4 |
| Endurance                          | 85°C, 1,000hours rated voltage applied (With the rated ripple current) | ΔC/C                                    | Within ±25% of the initial value      |      |      |      |      |      |   |
|                                    |  | tan δ                                   | Less than 200% of the specified value |      |      |      |      |      |   |
|                                    |  | LC                                      | Less than the specified value         |      |      |      |      |      |   |

## Marking, Dimensions

Polarity (Cathode)

(P)reference size

(Unit : mm)

| D <sup>+0.5max</sup> | L <sup>+0.1<br/>-0.2</sup> | W <sup>±0.2</sup> | H <sup>±0.2</sup> | C <sup>±0.2</sup> | R          | P   |
|----------------------|----------------------------|-------------------|-------------------|-------------------|------------|-----|
| 5                    | 3.9                        | 5.3               | 5.3               | 6.0               | 0.5 to 0.8 | 1.4 |
| 6.3                  | 3.9                        | 6.6               | 6.6               | 7.3               | 0.5 to 0.8 | 2.2 |

## Size, Rated Ripple Current

| μF \ V | 4                       | 6.3                     | 10                      | 16                      | 25         | 35       | 50         |
|--------|-------------------------|-------------------------|-------------------------|-------------------------|------------|----------|------------|
| 1.0    |                         |                         |                         |                         |            |          | 5×3.9 8.4  |
| 2.2    |                         |                         |                         |                         |            |          | 5×3.9 14   |
| 3.3    |                         |                         |                         |                         |            |          | 5×3.9 17   |
| 4.7    |                         |                         |                         |                         |            |          | 5×3.9 21   |
| 10     |                         |                         |                         | 5×3.9 25                | 5×3.9 18   | 5×3.9 18 | 5×3.9 21   |
| 22     |                         | 5×3.9 33                | 5×3.9 35                | 5×3.9★ 37<br>6.3×3.9 45 | 6.3×3.9 30 | 5×3.9 29 | 6.3×3.9 33 |
| 33     | 5×3.9 33                | 5×3.9 40                | 5×3.9★ 43<br>6.3×3.9 50 | 6.3×3.9 50              | 6.3×3.9 60 |          |            |
| 47     | 5×3.9 40                | 5×3.9★ 48<br>6.3×3.9 60 | 6.3×3.9 55              | 6.3×3.9 60              |            |          |            |
| 68     | 5×3.9★ 48<br>6.3×3.9 60 | 6.3×3.9 70              |                         |                         |            |          |            |
| 100    | 5×3.9★ 58<br>6.3×3.9 70 | 6.3×3.9 75              |                         |                         |            |          |            |
| 180    | 6.3×3.9 85              |                         |                         |                         |            |          |            |

Please refer to page 15 for ripple current frequency coefficients.  
★BES

Rated ripple current  
mA rms (120Hz, 85°C)

Case size: φDxL (mm)

## Part number

