

BLA Series

• 105°C 5,000Hrs assured.

- Vertical SMD type.
- Long Life.
- For LED MT, AVN.
- RoHS compliant.
- Halogen-free capacitors are also available.

Solvent-proof

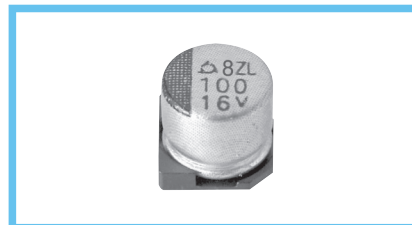
WV ≤ 63V_{DC}

BDA

→

BLA

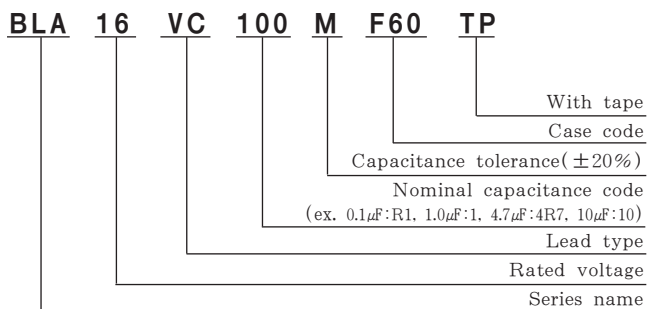
Long Life



SPECIFICATIONS

| Item | Characteristics | | | | | | | | | | |
|--|---|---|------|------|------|-------|--------|---------|---------------------------------------|---------|------|
| Rated Voltage Range | 4 ~ 400 V _{DC} | | | | | | | | | | |
| Operating Temperature Range | -40 ~ +105°C | | | | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | | | | |
| Leakage Current | Rated Voltage(V _{DC}) | 4~100 | | | | | | | 160~400 | | |
| | Max. Leakage current(μA) | 0.01CV (μA) or 3μA, whichever is greater. (at 20°C, 2 minutes) | | | | | | | 0.04CV+100(μA) (at 20°C, 1 minute) | | |
| Dissipation Factor(Tanδ) | Rated voltage(V _{DC}) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63~100 | 160~250 | 400 |
| | Tanδ(Max.) | 0.37 | 0.28 | 0.24 | 0.20 | 0.16 | 0.13 | 0.12 | 0.12 | 0.15 | 0.20 |
| (at 20°C, 120Hz) | | | | | | | | | | | |
| Temperature Characteristics (Max. Impedance ratio) | Rated voltage(V _{DC}) | 4 | 6.3 | 10 | 16 | 25~50 | 63~100 | 160~250 | 400 | | |
| | Z(-25°C)/Z(+20°C) | 8 | 4 | 3 | 2 | 2 | 3 | 3 | 6 | | |
| | Z(-40°C)/Z(+20°C) | 14 | 10 | 7 | 5 | 3 | 4 | 6 | 10 | | |
| (at 120Hz) | | | | | | | | | | | |
| Load Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours at 105°C. Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value | | | | | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value | | | | | | | | | | |
| Others | Satisfied characteristics KS C IEC 60384-4 | | | | | | | | | | |

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

| Freq.(Hz) | 120 | 1K | 10K | 100K |
|-----------|------|------|------|------|
| Factor | 1.00 | 1.05 | 1.08 | 1.08 |

DIMENSIONS OF BLA Series

Unit(mm)

DIMENSIONS

Recommended solder land on PC board

▨ : Solder land on PC board

MARKING

Note 1 : $L \pm 0.5$ for 8×10 (H10)~ 12.5×13.5 (K14)
 Note 2 : 4×5.2 (D55), 5×5.2 (E55) is excluded symbol mark.
 Note 3 : 6.3WV is marked by 6V.

| Case code | φ D | L | A | B | C | W | P | a | b | c |
|-----------|------|------|------|------|------|---------|-----|-----|-----|-----|
| D55 | 4 | 5.2 | 4.3 | 4.3 | 5.1 | 0.5~0.8 | 1.0 | 1.0 | 2.6 | 1.6 |
| E55 | 5 | 5.2 | 5.3 | 5.3 | 5.9 | 0.5~0.8 | 1.4 | 1.4 | 3.0 | 1.6 |
| F55 | 6.3 | 5.2 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 1.9 | 1.9 | 3.5 | 1.6 |
| F60 | 6.3 | 5.7 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 1.9 | 1.9 | 3.5 | 1.6 |
| F80 | 6.3 | 7.7 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 1.9 | 1.9 | 3.5 | 1.6 |
| H63 | 8 | 6.3 | 8.3 | 8.3 | 9.0 | 0.5~0.8 | 2.3 | 2.3 | 4.5 | 1.6 |
| H10 | 8 | 10 | 8.3 | 8.3 | 9.0 | 0.7~1.1 | 3.1 | 3.1 | 4.2 | 2.2 |
| J10 | 10 | 10 | 10.3 | 10.3 | 11.0 | 0.7~1.1 | 4.5 | 4.5 | 4.4 | 2.2 |
| K14 | 12.5 | 13.5 | 13.0 | 13.0 | 13.7 | 1.0~1.3 | 4.2 | 4.0 | 5.7 | 2.5 |

RATINGS OF BLA Series

| V _{DC} / μF | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|----------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 1 | | | | | | | D55 5.6 | | |
| 2.2 | | | | | | | D55 10 | | |
| 3.3 | | | | | | | D55 14 | | |
| 4.7 | | | | | D55 13 | D55 15 | E55 19 | | |
| 10 | | | | D55 16 | E55 25 | E55 25 | F55 29 | F60 32 | H63 48 |
| 22 | D55 19 | D55 21 | E55 30 | E55 30 | F55 40 | F55 40 | F60 43 | H10 69 | H10 91 |
| 33 | E55 30 | E55 34 | E55 34 | F55 45 | F55 45 | F80 57 | H10 77 | J10 96 | J10 127 |
| 47 | E55 34 | E55 36 | F55 48 | F55 48 | F60 52 | H10 92 | H10 92 | J10 114 | K14 193 |
| 100 | E55 45 | F60 56 | F60 90 | F60 110 | H10 116 | J10 151 | J10 151 | K14 212 | K14 281 |
| 220 | | | F80 120 | H10 140 | J10 216 | J10 216 | K14 221 | | |
| 330 | | | H10 170 | J10 238 | J10 238 | K14 271 | | | |
| 470 | | | J10 254 | J10 254 | K14 324 | | | | |
| 1,000 | | | K14 472 | K14 472 | | | | | |

| V _{DC} / μF | 160 | 200 | 250 | 400 |
|----------------------|---------|---------|---------|--------|
| 2.2 | | | | J10 26 |
| 3.3 | | | J10 46 | J10 37 |
| 4.7 | | J10 54 | K14 65 | K14 70 |
| 10 | J10 79 | J10 79 | K14 102 | |
| 22 | K14 148 | K14 148 | | |
| 33 | K14 182 | | | |

↑ Rated Ripple Current (mA rms/105°C, 120Hz)
 ↑ Case code

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