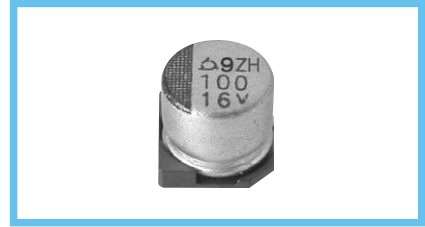


BLH Series

• 105°C 10,000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Long life of BLA Series
- For LCD MT/TV, AVN
- RoHS compliant.
- Halogen-free capacitors are also available.

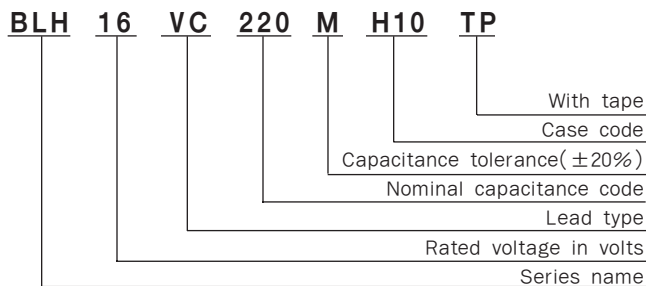


SPECIFICATIONS

| Item | Characteristics | | | | | | | | | | | | |
|--|--|---------------------------------|-------|------|-------|-------------------|----|-------------|------|-------------------|------|------|------|
| Rated Voltage Range | 10 ~ 50 V _{DC} | | | | | | | | | | | | |
| Operating Temperature Range | -40 ~ +105°C | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | | | | | | |
| Leakage Current | I = 0.01CV(μA) or 3μA, whichever is greater. Where, I: Max. Leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V _{DC}) (at 20°C, 2 minutes) | | | | | | | | | | | | |
| Dissipation Factor (Tan δ) | <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <tr> <td style="text-align: center;">Rated voltage(V_{DC})</td> <td style="text-align: center;">10</td> <td style="text-align: center;">16</td> <td style="text-align: center;">25</td> <td style="text-align: center;">35</td> <td style="text-align: center;">50</td> </tr> <tr> <td style="text-align: center;">Tan δ(Max.)</td> <td style="text-align: center;">0.24</td> <td style="text-align: center;">0.20</td> <td style="text-align: center;">0.16</td> <td style="text-align: center;">0.13</td> <td style="text-align: center;">0.12</td> </tr> </table> (at 20°C, 120Hz) | Rated voltage(V _{DC}) | 10 | 16 | 25 | 35 | 50 | Tan δ(Max.) | 0.24 | 0.20 | 0.16 | 0.13 | 0.12 |
| Rated voltage(V _{DC}) | 10 | 16 | 25 | 35 | 50 | | | | | | | | |
| Tan δ(Max.) | 0.24 | 0.20 | 0.16 | 0.13 | 0.12 | | | | | | | | |
| Temperature Characteristics (Max. Impedance ratio) | <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <tr> <td style="text-align: center;">Rated voltage(V_{DC})</td> <td style="text-align: center;">10</td> <td style="text-align: center;">16</td> <td style="text-align: center;">25~50</td> </tr> <tr> <td style="text-align: center;">Z(-25°C)/Z(+20°C)</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Z(-40°C)/Z(+20°C)</td> <td style="text-align: center;">7</td> <td style="text-align: center;">5</td> <td style="text-align: center;">3</td> </tr> </table> (at 120Hz) | Rated voltage(V _{DC}) | 10 | 16 | 25~50 | Z(-25°C)/Z(+20°C) | 3 | 2 | 2 | Z(-40°C)/Z(+20°C) | 7 | 5 | 3 |
| Rated voltage(V _{DC}) | 10 | 16 | 25~50 | | | | | | | | | | |
| Z(-25°C)/Z(+20°C) | 3 | 2 | 2 | | | | | | | | | | |
| Z(-40°C)/Z(+20°C) | 7 | 5 | 3 | | | | | | | | | | |
| Load Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 10,000 hours at 105°C Capacitance change ≤ ±30% of the initial value Tan δ ≤ 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 Tan δ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value | | | | | | | | | | | | |
| Others | Satisfied characteristics KS C IEC 60384-4 | | | | | | | | | | | | |

BLH Series

PART NUMBERING SYSTEM



| Capacitance | Code |
|-------------|------|
| 0.1μF | R1 |
| 0.47μF | R47 |
| 1.0μF | 1 |
| 4.7μF | 4R7 |
| 10μF | 10 |
| 100μF | 100 |



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

DIMENSIONS OF BLH Series (Type : VC)

Unit(mm)

DIMENSIONS

MARKING

| Case code | φ D | L | A | B | C | W | P | a | b | c |
|-----------|-----|----|------|------|----|---------|-----|-----|-----|-----|
| H10 | 8 | 10 | 8.3 | 8.3 | 9 | 0.7-1.1 | 3.1 | 3.1 | 4.2 | 2.2 |
| J10 | 10 | 10 | 10.3 | 10.3 | 11 | 0.7-1.1 | 4.5 | 4.5 | 4.4 | 2.2 |

Recommended solder land on PC board

: Solder land on PC board

RATINGS OF BLH Series

| V _{DC} μF | 10 | 16 | 25 | 35 | 50 |
|-----------------------|---------|---------|---------|---------|---------|
| 33 | | | | | H10 77 |
| 47 | | | | H10 92 | H10 92 |
| 100 | | | H10 116 | J10 151 | J10 151 |
| 220 | | H10 140 | J10 218 | J10 216 | |
| 330 | H10 170 | J10 238 | J10 238 | | |
| 470 | J10 254 | J10 254 | | | |

