

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

6415

BDS 50 VC 220 (M)

SERIES

BDS

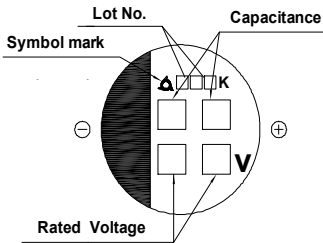
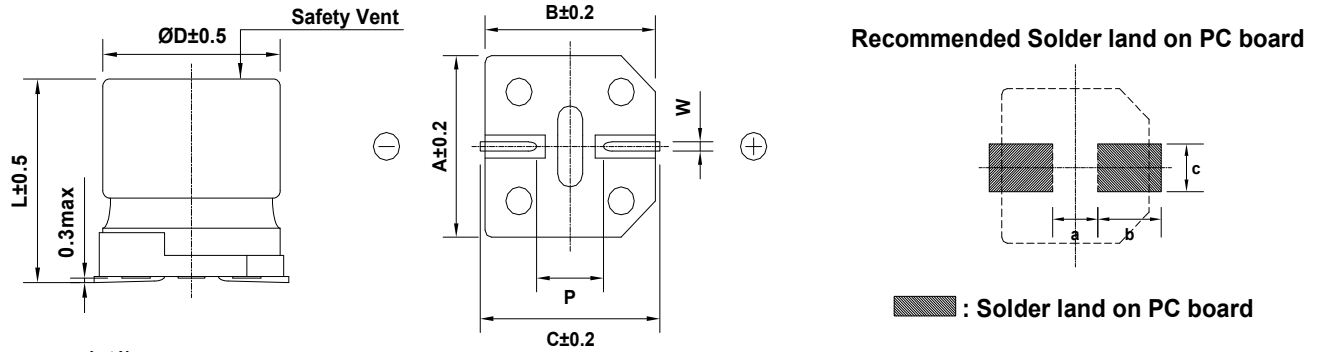
RATING

50 V 220 μ F

CASE SIZE

\varnothing 10 x 10L

A. DIAGRAM OF DIMENSION



| Case code | $\varnothing D$ | L | A | B | C | W | P | a | b | c |
|-----------|-----------------|----|------|------|------|---------|-----|-----|-----|-----|
| J10 | 10 | 10 | 10.3 | 10.3 | 11.0 | 0.7-1.1 | 4.5 | 4.5 | 4.4 | 2.2 |

B. ELECTRICAL CHARACTERISTICS

- A. OPERATING TEMPERATURE RANGE : **-40 ~ +105 °C**
- B. RATED VOLTAGE : **50 V_{DC}**
- C. SURGE VOLTAGE : **63 V_{DC}**
- D. CAPACITANCE TOLERANCE : **$\pm 20\%$ at 20°C, 120Hz**
- E. LEAKAGE CURRENT : **Lower 110 μ A, after 2 minutes at 20°C**
- F. DISSIPATION FACTOR (TAN δ) : **Lower 0.12 at 20°C, 120Hz**
- G. MAX. RIPPLE CURRENT : **360 mArms at 105°C, 120Hz**
- H. TEMPERATURE CHARACTERISTIC :
 (Max. Impedance ratio) $Z(-25^\circ\text{C}) / Z(20^\circ\text{C}) = \frac{3}{4}$
 $Z(-40^\circ\text{C}) / Z(20^\circ\text{C}) = \frac{4}{4}$ (at 120Hz)
- I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for **2,000 hours at 105°C**.
 - # Capacitance change $\leq \pm 20\%$ of the initial value
 - # Tan δ $\leq 200\%$ of the initial specified value
 - # Leakage Current \leq The initial specified value
- J. 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 measurement.
 - # Capacitance change $\leq \pm 20\%$ of the initial value
 - # Tan δ $\leq 200\%$ of the initial specified value
 - # Leakage Current \leq The initial specified value
- K. CLEANING CONDITIONS : Solvent-proof
- L. OTHERS : Satisfied characteristics KS C IEC 60384-4

