

# ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

**6416**

**BDA 16 VC 220 (M)**

SERIES

BDA

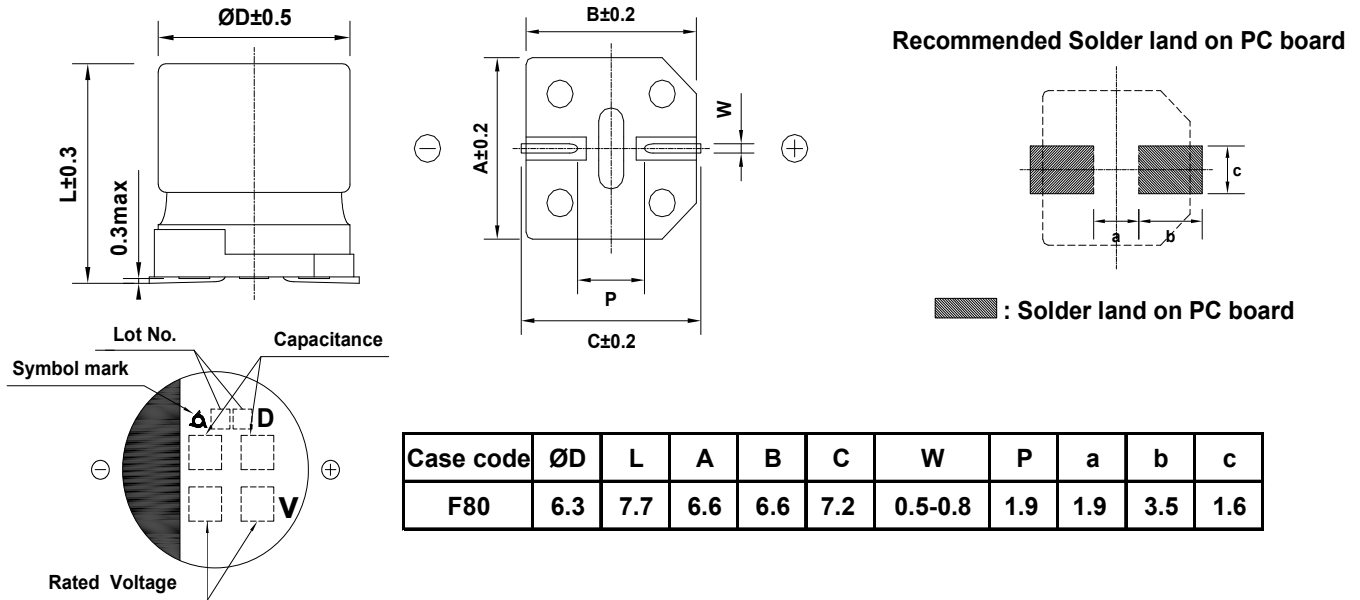
RATING

16 V 220  $\mu$ F

CASE SIZE

$\varnothing$ 6.3  $\times$  7.7L

## A. DIAGRAM OF DIMENSION



## B. ELECTRICAL CHARACTERISTICS

- A. OPERATING TEMPERATURE RANGE : **-40 ~ +105 °C**
- B. RATED VOLTAGE : **16 V<sub>DC</sub>**
- C. SURGE VOLTAGE : **20 V<sub>DC</sub>**
- D. CAPACITANCE TOLERANCE : **± 20%** at 20 °C, 120Hz
- E. LEAKAGE CURRENT : Lower **35.2  $\mu$ A**, after 2 minutes at 20 °C
- F. DISSIPATION FACTOR (TAN $\delta$ ) : Lower **0.20** at 20 °C, 120Hz
- G. MAX. RIPPLE CURRENT : **120 mArms** at 105 °C, 120Hz
- H. TEMPERATURE CHARACTERISTIC :  
 (Max. Impedance ratio)  $Z(-25^\circ\text{C}) / Z(20^\circ\text{C}) = \underline{2}$   
 $Z(-40^\circ\text{C}) / Z(20^\circ\text{C}) = \underline{4}$  (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  $\leq$  **±25 %** of the initial value
  - # Tan $\delta$   $\leq$  **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  $\leq$  **±25 %** of the initial value
  - # Tan $\delta$   $\leq$  **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

