

# ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

**NXH 16 VB 100 (M)**

SERIES

NXH

RATING

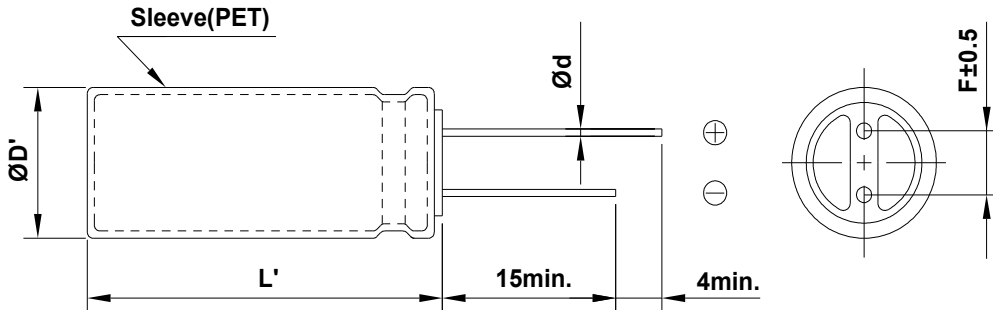
16 WV 100  $\mu$ F

CASE SIZE

$\varnothing$  5 x 11 L

## A. DIAGRAM OF DIMENSION

[ UNIT : mm ]



ØD	5
L	11
Ød	0.5
F	2.0
ØD'	ØD+0.5max.
L'	L+1.5max.

## B. MARKING: YELLOW SLEEVE & BLACK INK



FRONT VIEW OF CAPACITOR

IMPRINT OF LOT NO. ON CASE

SAM  
YOUNG  
<M>105°C

BACK VIEW OF CAPACITOR

IMPRINT OF LOT NO. ON TUBE

<M>105°C  
LOT NO

## C. 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 16µA, after 2 minutes at 20°C
- F. DISSIPATION FACTOR (TAN δ) : Lower 0.16 at 20°C, 120Hz
- G. MAX. RIPPLE CURRENT : 345 mArms at 105°C, 100kHz
- H. TEMPERATURE CHARACTERISTIC :  
 (Max. Impedance ratio)  $Z(-25^{\circ}\text{C}) / Z(20^{\circ}\text{C}) = \underline{2}$   
 $Z(-40^{\circ}\text{C}) / Z(20^{\circ}\text{C}) = \underline{3}$  (at 120Hz)

I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the ripple current is applied for 6,000 hours at 105°C.

- # Capacitance change ≤ ±25 % of the initial value
- # Tan δ ≤ 200 % of the initial specified value
- # Leakage Current ≤ 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 ≤ ±25 % of the initial value
- # Tan δ ≤ 200 % of the initial specified value
- # Leakage Current ≤ The initial specified value

K. CLEANING CONDITIONS : Non-Solvent proof→Refer to Cleaning conditions (Page 6)

L. OTHERS : Satisfied characteristics W of KS C 6421

※ IMP(20°C, 100kHz) : 0.22 (Ω) ↓

