ROPLA 2019.12.12

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

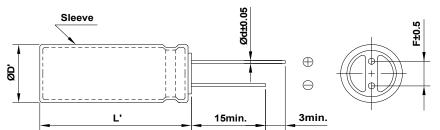
10471

[UNIT: mm]

NXB 25 VB 100 (M)

SERIES	NXB		
RATING	25 V 100 μF		
CASE SIZE	Ø 5 × 15 L		

A. DIAGRAM OF DIMENSION



ØD	5
L	15
Ød	0.5
F	2.0
ØD'	ØD+0.5max.
L'	L+1.5max.

B. MARKING: <u>DARK BROWN</u> SLEEVE & <u>SILVER</u> INK



C. ELECTRICAL CHARACTERISTICS

* LOT NO. MARKED ON THE TOP OF THE CASE

SAM YOUNG <M> 105℃ * LOT NO. MARKED ON THE SLEEVE

LOT NO <M> 105°C

FRONT VIEW OF CAPACITOR

A. OPERATING TEMPERATURE RANGE : <u>-40</u> ~<u>+105℃</u>

B. RATED VOLTAGE : 25 V_{DC} C. SURGE VOLTAGE : 32 V_{DC}

D. CAPACITANCE TOLERANCE : $\pm 20\%$ at 20 °C,120 Hz

E. LEAKAGE CURRENT : Lower 25 μA, after 2 minutes at 20 ℃

F. DISSIPATION FACTOR (TAN δ) : Lower 0.14 at 20 $^{\circ}$ C, 120 Hz G. RATED RIPPLE CURRENT : 620 mArms at 105 $^{\circ}$ C, 100 kbz

H. RATED RIPPLE CURRENT MULTIPLIERS
(Frequency Multipliers)

Freq.(Hz)	120	1k	10k	50k	100k
Factor	0.40	0.75	0.90	0.95	1.00

I. TEMPERATURE CHARACTERISTIC

(Max.Impedance ratio)

Z(-25℃) / Z(20℃)	2
Z(-40℃) / Z(20℃)	3

(at 120Hz)

or

BACK VIEW OF CAPACITOR

J. LOAD LIFE: The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage)for 2,000 hours at 105°C.

Capacitance change $\leq \pm 25 \%$ of the initial value

Tan δ \leq 200 % of the initial specified value

Leakage Current ≤ The initial specified value

K. 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.

not more than 40 hours before the measurement.

Capacitance change $\leq \pm 25 \%$ of the initial value

Tan δ \leq <u>200 %</u> of the initial specified value

Leakage Current ≤ The initial specified value

L. CLEANING CONDITIONS: Non-solvent proof

M. OTHERS : Satisfied charateristics KS C IEC 60384-4

※ IMP.(20°C,100kHz) : 0.13 (Ω) ↓







