ROPLA 2023.01.02

ALUMINUM ELECTROLYTIC CAPACITORS

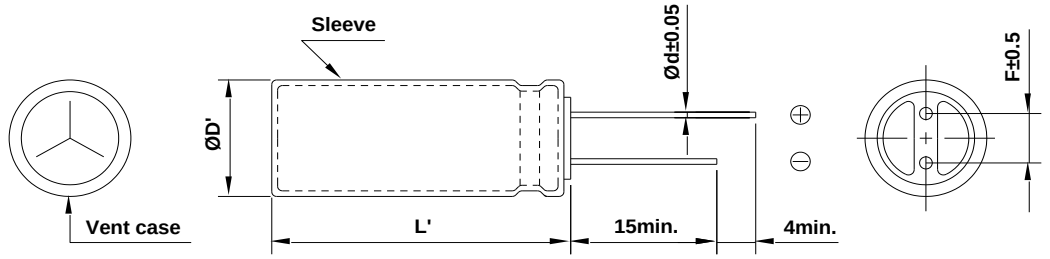
APPROVAL NO. 13396

NXK 25 VB 470 (M)

SERIES	NXK
RATING	25 V 470 ㎌
CASE SIZE	Ø 10 × 16 L

A. DIAGRAM OF DIMENSION

[UNIT : ㎜]



ØD	10
L	16
Ød	0.6
F	5.0
ØD'	ØD+0.5max.
L'	L+2.0max.

B. MARKING: YELLOW SLEEVE & BLACK INK

FRONT VIEW OF CAPACITOR BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE : - 40 ～＋105℃

B. RATED VOLTAGE : 25 V_{DC}

C. SURGE VOLTAGE : 32 V_{DC}

D. CAPACITANCE TOLERANCE : ± 20% at 20℃,120㎐

E. LEAKAGE CURRENT : Lower 117.5 ㎂ , after 2 minutes at 20℃

F. DISSIPATION FACTOR (TANδ) : Lower 0.14 at 20℃, 120㎐

G. RATED RIPPLE CURRENT : 2550 mArms at 105℃ , 100 ㎑

H. RATED RIPPLE CURRENT MULTIPLIERS (Frequency Multipliers) :

Freq.(㎐)	120	1k	10k	50k	100k
Factor	0.55	0.77	0.94	0.96	1.00

I. TEMPERATURE CHARACTERISTIC (Max. Impedance ratio) :

Z(-25℃) / Z(20℃)	2
Z(-40℃) / Z(20℃)	3

(at 120㎐)

J. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105℃.

Capacitance change ≤ ±25 % of the initial value

Tanδ ≤ 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℃, after exposing them for 1,000 hours at 105℃ 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

Tanδ ≤ 200 % 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℃,100㎑) : 0.038 Ω↓