

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

9859

NXK 16 VB 470 (M)

SERIES

NXK

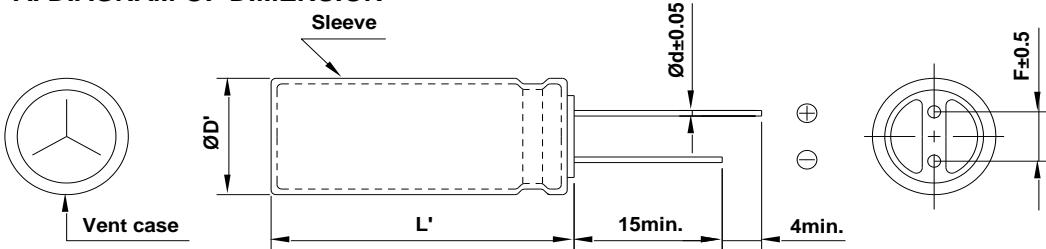
RATING

16 V 470 μ F

CASE SIZE

 \varnothing 10 x 12.5 L

A. DIAGRAM OF DIMENSION

B. MARKING: YELLOW SLEEVE & BLACK INK

FRONT VIEW OF CAPACITOR



BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE	:	<u>- 40 ~ + 105 °C</u>												
B. RATED VOLTAGE	:	<u>16 V_{dc}</u>												
C. SURGE VOLTAGE	:	<u>20 V_{dc}</u>												
D. CAPACITANCE TOLERANCE	:	<u>± 20%</u> at 20°C, 120Hz												
E. LEAKAGE CURRENT	:	Lower <u>75.2 μA</u> , after 2 minutes at 20°C												
F. DISSIPATION FACTOR (TANδ)	:	Lower <u>0.16</u> at 20°C, 120Hz												
G. RATED RIPPLE CURRENT	:	<u>2190 mArms</u> at 105°C, 100 kHz												
H. RATED RIPPLE CURRENT MULTIPLIERS (Frequency Multipliers)	:	<table border="1"> <thead> <tr> <th>Freq.(Hz)</th> <th>120</th> <th>1k</th> <th>10k</th> <th>50k</th> <th>100k</th> </tr> </thead> <tbody> <tr> <td>Factor</td> <td>0.55</td> <td>0.77</td> <td>0.94</td> <td>0.96</td> <td>1.00</td> </tr> </tbody> </table>	Freq.(Hz)	120	1k	10k	50k	100k	Factor	0.55	0.77	0.94	0.96	1.00
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Factor	0.55	0.77	0.94	0.96	1.00									
I. TEMPERATURE CHARACTERISTIC (Max. Impedance ratio)	:	<table border="1"> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>3</td> </tr> </table> (at 120Hz)	Z(-25°C) / Z(20°C)	2	Z(-40°C) / Z(20°C)	3								
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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 4,000 hours at 105°C.

- # Capacitance change \leq ±25 % of the initial value
- # Tanδ \leq 200 % of the initial specified value
- # Leakage Current \leq 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.

- # Capacitance change \leq ±25 % of the initial value
- # Tanδ \leq 200 % of the initial specified value
- # Leakage Current \leq The initial specified value

L. CLEANING CONDITIONS : Non solvent proof

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

* IMP(20°C,100kHz) : 0.053 Ω ↓



Sam Young Electronics Co., Ltd.