

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

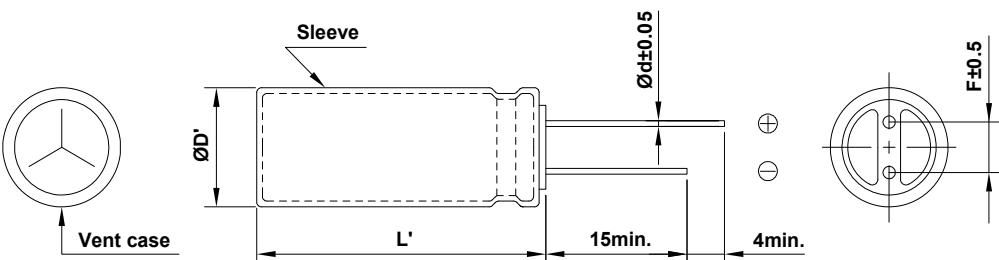
7759

NXQ 35 VB 470 (M)

SERIES	NXQ
RATING	35 V 470 μ F
CASE SIZE	\varnothing 10 x 20 L

A. DIAGRAM OF DIMENSION

[UNIT : mm]



ØD	10
L	20
Ød	0.6
F	5.0
ØD'	ØD+0.5 max.
L'	L'+2.0 max.

B. MARKING: DARK BROWN SLEEVE & SILVER INK

FRONT VIEW OF CAPACITOR



BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE	:	-40 ~ +105 °C												
B. RATED VOLTAGE	:	35 V _{nc}												
C. SURGE VOLTAGE	:	44 V _{nc}												
D. CAPACITANCE TOLERANCE	:	±20% at 20°C, 120Hz												
E. LEAKAGE CURRENT	:	Lower 165 μ A, after 2 minutes at 20°C												
F. DISSIPATION FACTOR (TANδ)	:	Lower 0.12 at 20°C, 120Hz												
G. RATED RIPPLE CURRENT	:	2,500 mArms at 105°C, 100 kHz												
H. RATED RIPPLE CURRENT MULTIPLIERS (Frequency Multipliers)	:	<table border="1"> <tr> <td>Freq.(Hz)</td> <td>120</td> <td>1k</td> <td>10k</td> <td>50k</td> <td>100k</td> </tr> <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> </table>	Freq.(Hz)	120	1k	10k	50k	100k	Factor	0.55	0.77	0.94	0.96	1.00
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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> <p style="text-align: right;">(at 120Hz)</p>	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 10,000 hours at 105°C.

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°C, after exposing them for 500 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 measurements.

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 characteristics KS C IEC 60384-4

※ IMP.(20°C, 100kHz) : 0.028 (Ω) ↓



Sam Young Electronics Co., Ltd.