

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

8919

NXH 50 VB 1 (M)

SERIES

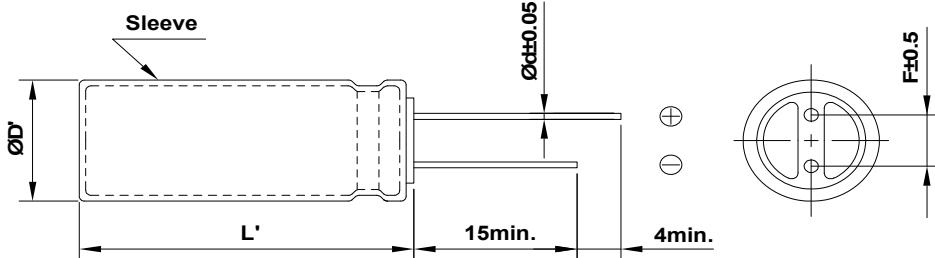
RATING

CASE SIZE

NXH

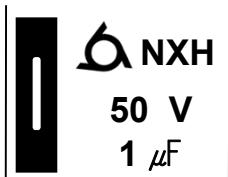
50 V 1 μ F \varnothing 5 × 11 L

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* MARKED ON
THE TOP OF THE CASESAM
YOUNG
<M>105°C or* MARKED
ON THE SLEEVELOT NO
M>105°C

FRONT VIEW OF CAPACITOR

BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE	:	<u>-40</u> ~ <u>+105</u> °C												
B. RATED VOLTAGE	:	<u>50 V_{DC}</u>												
C. SURGE VOLTAGE	:	<u>63 V_{DC}</u>												
D. CAPACITANCE TOLERANCE	:	<u>± 20%</u> at 20°C, 120Hz												
E. LEAKAGE CURRENT	:	Lower <u>3 μA</u> , after 2 minutes at 20°C												
F. DISSIPATION FACTOR (TANδ)	:	Lower <u>0.10</u> at 20°C, 120Hz												
G. RATED RIPPLE CURRENT	:	<u>53 mArms</u> at 105°C, 100kHz												
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>0.40</td><td>0.66</td><td>0.85</td><td>0.90</td><td>1.00</td></tr> </table>	Freq.(Hz)	120	1k	10k	50k	100k	Factor	0.40	0.66	0.85	0.90	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> (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 6,000 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 measurements.

- # 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) : 2.5 (Ω) ↓



SamYoung Electronics Co., Ltd.