2020.05.15

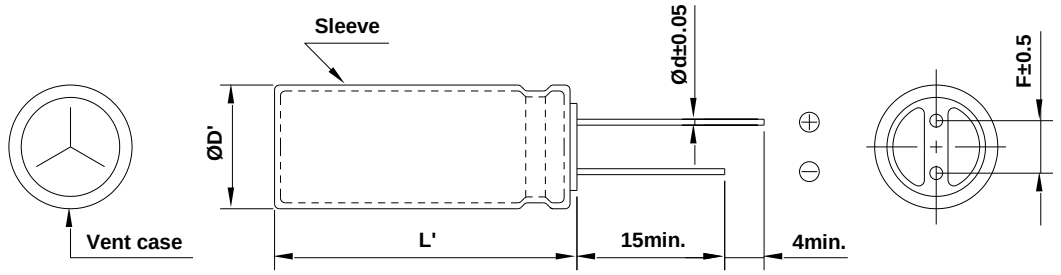
ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.
10135

NXQ 100 VB 120 (M)		
	SERIES	NXQ
	RATING	100 V 120 ㎌
	CASE SIZE	Ø 10 × 20 L

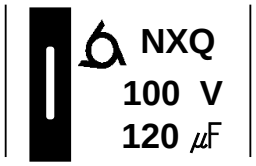
A. DIAGRAM OF DIMENSION

[UNIT : ㎜]

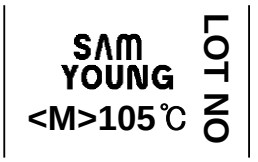


ØD	10
L	20
Ød	0.6
F	5.0
ØD'	ØD+0.5 max.
L'	L+2.0 max.

B. MARKING: DARK BROWN SLEEVE & SILVER INK



FRONT VIEW OF CAPACITOR



BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

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

B. RATED VOLTAGE : 100 V_{DC}

C. SURGE VOLTAGE : 125 V_{DC}

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

E. LEAKAGE CURRENT : Lower 120 ㎂ , after 2 minutes at 20℃

F. DISSIPATION FACTOR (TANδ) : Lower 0.08 at 20℃, 120㎐

G. RATED RIPPLE CURRENT : 1430 mArms at 105℃ , 100㎑

H. RATED RIPPLE CURRENT MULTIPLIERS : (Frequency Multipliers)

Freq.(㎐)	120	1k	10k	50k	100k
Factor	0.50	0.73	0.92	0.95	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 10,000 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 500 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 measurements.

Capacitance change ≤ ±25 % of the initial value

Tanδ ≤ 200 % of the initial specified value

Leakage Current ≤ The initial specified valu

L. CLEANING CONDITIONS : Non-solvent proof

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

※ IMP.(20℃,100㎑) : 0.084 (Ω)↓

SamYoung Electronics Co., Ltd.