ALUMINUM ELECTROLYTIC CAPACITORS

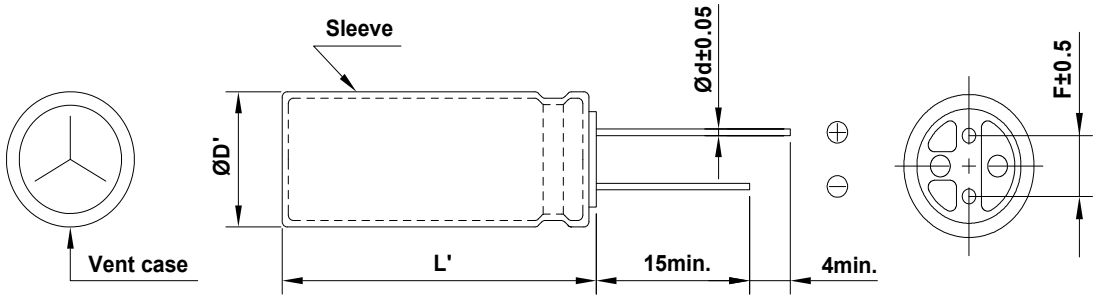
APPROVAL NO. 7716

NFL 400 VB 22 (M)

SERIES	NFL
RATING	400 V 22 ㎌
CASE SIZE	Ø12.5 × 25L

A. DIAGRAM OF DIMENSION

[Unit : ㎜]



ØD	12.5
L	25
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 : 400 V_{DC}
C. SURGE VOLTAGE : 450 V_{DC}
D. CAPACITANCE TOLERANCE : ±20% at 20℃ , 120㎐
E. LEAKAGE CURRENT : Lower 452 ㎂ , after 1 minute at 20℃
F. DISSIPATION FACTOR (TANδ) : Lower 0.24 at 20℃ , 120㎐
G. RATED RIPPLE CURRENT : 227 mArms at 105℃ , 120㎐
H. TEMPERATURE CHARACTERISTIC (Max.Impedance ratio) :

Z(-25℃) / Z(20℃)	5
Z(-40℃) / Z(20℃)	6

(at 120㎐)

I. 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 12,000 hours at 105℃.
Capacitance change ≤ ±20 % of the initial value
Tanδ ≤ 200 % of the initial specified value
Leakage Current ≤ The initial specified value

J. 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 measurements.
Capacitance change ≤ ±20 % of the initial value
Tanδ ≤ 200 % of the initial specified value
Leakage Current ≤ 500 % of the initial specified value

K. CLEANING CONDITIONS : Non-solvent proof
L. OTHERS : Satisfied characteristics KS C IEC 60384-4