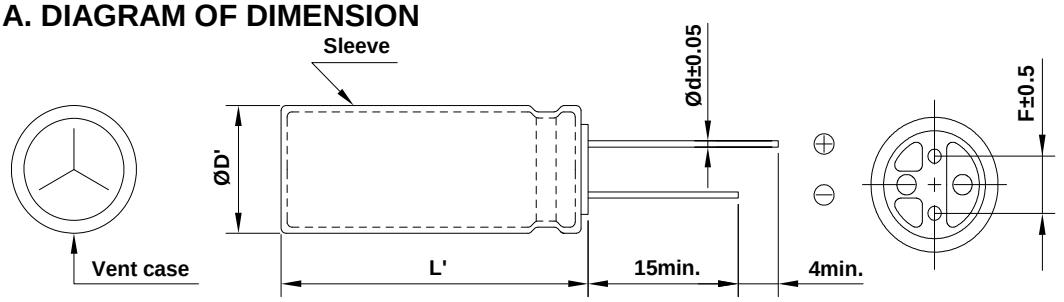
ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO. 8371

NFR 450 VB 22 (M)		
	SERIES	NFR
	RATING	450 V 22 ㎌
	CASE SIZE	Ø12.5 × 20L

A. DIAGRAM OF DIMENSION

[UNIT : ㎜]



ØD	12.5
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 : - 25 ~ +105℃

B. RATED VOLTAGE : 450 V_{DC}

C. SURGE VOLTAGE : 500 V_{DC}

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

E. LEAKAGE CURRENT : Lower 496 ㎂ , after 1 minute at 20℃

F. DISSIPATION FACTOR (TANδ) : Lower 0.24 at 20℃ , 120㎐

G. RATED RIPPLE CURRENT : 500 mArms at 105℃ , 100㎑

H. RATED RIPPLE CURRENT MULTIPLIERS :

Freq.(㎐)	120	1k	10k	50k	100k
Factor	0.40	0.70	0.90	0.95	1.00

I. TEMPERATURE CHARACTERISTIC :

(Max.Impedance ratio) Z(-25℃) / Z(20℃) 6 (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 12,000 hours at 105℃.

Capacitance change ≤ ±20 % of the initial value

Tan δ ≤ 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 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 measurement.

Capacitance change ≤ ±20 % of the initial value

Tan δ ≤ 200 % of the initial specified value

Leakage Current ≤ 500% of the initial specified value

L. CLEANING CONDITIONS : Non-solvent proof

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