ROPLA 2021.06.01

ALUMINUM ELECTROLYTIC CAPACITORS

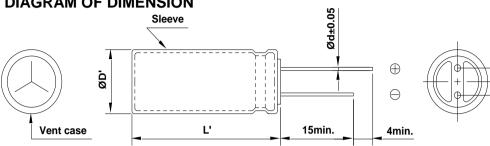
APPROVAL NO.

12091

NBC 450 VB 33 (M)

SERIES	NBC	
RATING	450 V 33 μF	
CASE SIZE	Ø 10 × 50 L	





B. MARKING: DARK BLUE SLEEVE & SILVER INK



FRONT VIEW OF CAPACITOR

BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

B. RATED VOLTAGE : 450 V_{DC} C. SURGE VOLTAGE : 500 V_{DC}

D. CAPACITANCE TOLERANCE : $\pm 20\%$ at 20 °C , 120Hz

E. LEAKAGE CURRENT : Lower $\underline{694 \, \mu A}$, after 1 minutes at 20 $^{\circ}$ C

F. DISSIPATION FACTOR (TAN δ) : Lower <u>0.24</u> at 20 $^{\circ}$, 120 Hz G. RATED RIPPLE CURRENT : <u>345 mArms</u> at 105 $^{\circ}$, 120 Hz

H. RATED RIPPLE CURRENT MULTIPLIERS

(Frequency Multipliers)

:	Freq.(ltz)	120	1k	10k	50k	100k
	Factor	1.00	1.75	2.25	2.35	2.50

I. TEMPERATURE CHARACTERISTIC :

(Max. Impedance ratio)

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Z(-25℃) / Z(20℃)	3		
Z(-40℃) / Z(20℃)	6	(at	120Њ)

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 $\leq \pm 20 \%$ of the initial value

Tan δ $\leq 200 \%$ 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 measurements.

Capacitance change $\leq \pm 20 \%$ of the initial value

Tan δ $\leq 200 \%$ of the initial specified value # Leakage Current $\leq 500 \%$ of the initial specified value

L. CLEANING CONDITIONS: Non-solvent proof

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

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