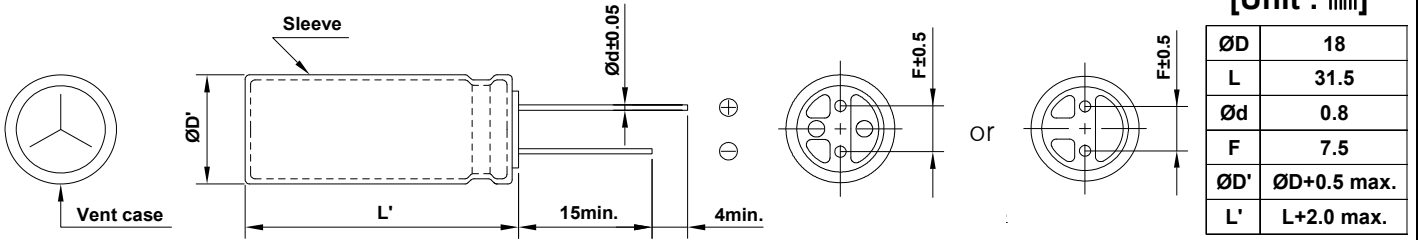


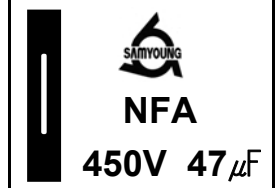
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|---|------------------------------------|
| ALUMINUM ELECTROLYTIC CAPACITORS | APPROVAL NO. 6804 |
|---|------------------------------------|

| | | |
|--------------------------|----------------------|-----------------------------------|
| NFA 450 VB 47 (M) | SERIES NFA | RATING 450 V 47 μ F |
| | CASE SIZE | \varnothing 18 × 31.5 L |

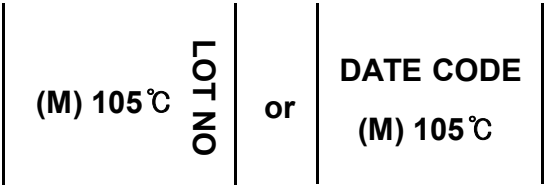
A. DIAGRAM OF DIMENSION



B. MARKING : DARK BROWN SLEEVE & SILVER INK



FRONT VIEW OF CAPACITOR



BACK VIEW OF CAPACITOR

C. ELECTRICAL CHARACTERISTICS

- A. OPERATING TEMPERATURE RANGE : -25 ~ +105°C
- B. RATED VOLTAGE : 450 V_{DC}
- C. SURGE VOLTAGE : 500 V_{DC}
- D. CAPACITANCE TOLERANCE : ±20% at 20°C, 120Hz
- E. LEAKAGE CURRENT : Lower 946 μ A , after 1 minute at 20°C
- F. DISSIPATION FACTOR (TAN δ) : Lower 0.24 at 20°C, 120Hz
- G. MAX. RIPPLE CURRENT : 393 mArms at 105°C , 120Hz
- H. TEMPERATURE CHARACTERISTIC :
(Max. Impedance ratio) Z(-25°C) / Z(20°C) = 6 (at 120Hz)
- I. 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 ±20% of the initial value
 # Tan δ \leq 200% of the initial specified value
 # Leakage Current \leq The initial specified value
- J. 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 ±20% of the initial value
 # Tan δ \leq 200% of the initial specified value
 # Leakage Current \leq 500% of the initial specified value
- K. CLEANING CONDITIONS : Non-solvent proof
- L. OTHERS : Satisfied characteristics KS C IEC 60384-4

