ROPLA 2021.09.03

ALUMINUM ELECTROLYTIC CAPACITORS

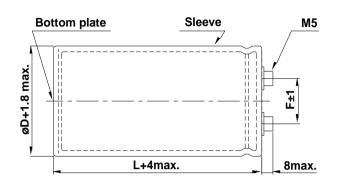
APPROVAL NO.

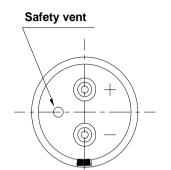
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TGA 160 LG 4700 (M)

SERIES	TGA
RATING	160 V 4700 <i>μ</i> F
CASE SIZE	Ø 50 × 75 L

A. DIAGRAM OF DIMENSION





ØD 50 L 75 F 22.4

[UNIT : mm]

B. MARKING: BROWN SLEEVE & SILVER INK





FRONT VIEW OF CAPACITOR

< BOTTOM PLATE or SLEEVE MARKING >

1 2 3 4

- ① The ending figure of manufactured year in A.D
- ② Manufactured month(1,2,3....9,O,N,D)
- ③ Manufactured day (A,B,C,....Z,a,b,c,d,e)
- SAMYOUNG's symbol NO(1)

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE : $-25 \sim +105$ °C

B. RATED VOLTAGE : $\frac{160 \text{ V}_{DC}}{200 \text{ V}_{DC}}$

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

E. LEAKAGE CURRENT : Lower 5000 µA, after 5 minutes at 20 ℃

F. DISSIPATION FACTOR (TAN δ) : Lower <u>0.25</u> at 20 $^{\circ}$ C, 120 † Z G. RATED RIPPLE CURRENT : <u>4.15 Arms</u> at 105 $^{\circ}$ C, 120 † Z

H. TEMPERATURE CHARACTERISTICS

(Capacipation change ratio) $C(-25^{\circ}) / C(20^{\circ}) \ge \underline{0.7}$ (at $120\frac{1}{12}$)

I. LOAD LIFE : The follwing specifications shall be satisfied when the capacitors are restored to 20 ℃ after the rated voltage with the rated rripple current is applied (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 105 ℃.

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

$Tan\delta$ \leq 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 at 105 ℃ for 500 hours 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 ≤ The initial specified value

K. CLEANING CONDITIONS: Non-solvent proof

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

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