ALUMINUM ELECTROLYTIC CAPACITORS

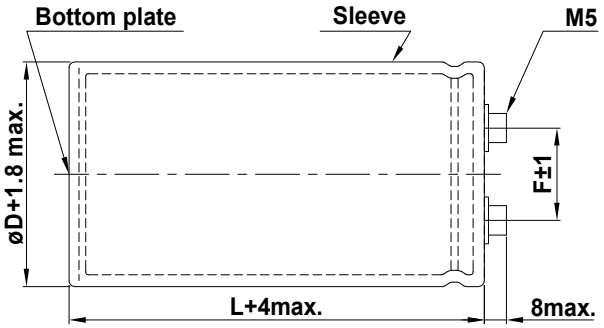
APPROVAL NO. 9865

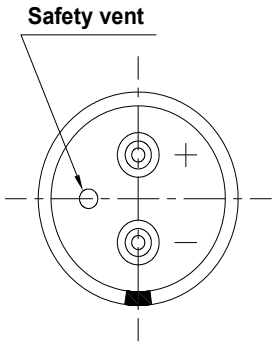
RFA 500 LG 4700 (M)

SERIES	RFA
RATING	500 V 4700 ㎌
CASE SIZE	Ø 76.5 × 140 L

A. DIAGRAM OF DIMENSION

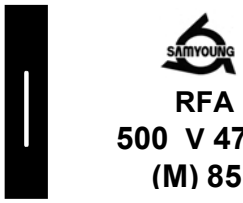
[UNIT : ㎜]





Ø	76.5
L	140
F	31.5

B. MARKING: BLACK SLEEVE & GOLD INK



FRONT VIEW OF CAPACITOR

< SLEEVE or BOTTOM PLATE 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)
④ SAMYOUNG's symbol NO(1)

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE : - 25 ~ +85℃
B. RATED VOLTAGE : 500 V_{DC}
C. SURGE VOLTAGE : 550 V_{DC}
D. CAPACITANCE TOLERANCE : ±20% (at 20℃, 120㎐)
E. LEAKAGE CURRENT : Lower 5000 ㎂, after 5 minutes at 20℃
F. DISSIPATION FACTOR (Tanδ) : Lower 0.25 at 20℃, 120㎐
G. RATED RIPPLE CURRENT : 13.5 Arms at 85 ℃, 120 ㎐
H. TEMPERATURE CHARACTERISTICS
(CAPACITANCE CHANGE RATIO) : C(-25℃)/C(20℃) ≥ 0.7 (at 120㎐)
I. INSULATION WITHSTANDING VOLTAGE :
When a voltage of 2,000V_{AC} is applied for one minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.
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 20,000 hours at 85℃.
Capacitance change : ≤ ±30 % of the initial value
Tanδ : ≤ 300 % 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 at 85℃ for 500 hours without voltage applied.
The rated volage 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 : ≤ 300 % of the initial specified value
Leakage current : ≤ The initial specified value
L. CLEANING CONDITIONS : Non-solvent proof
M. OTHERS : Satisfied charateristics KS C IEC 60384-4