

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

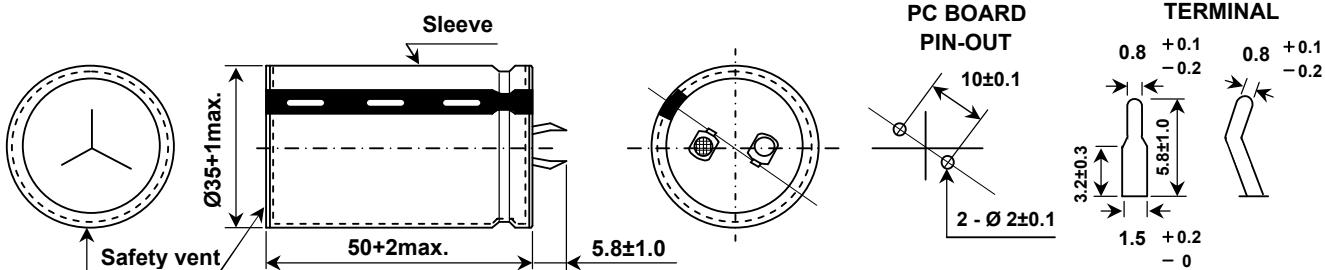
3417

AHS 100 VS 4700 (M)

SERIES	AHS
RATING	100 WV 4700 μ F
CASE SIZE	\varnothing 35 × 50 L

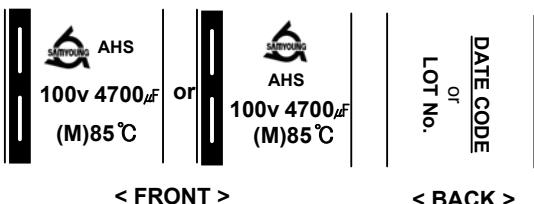
A. DIAGRAM OF DIMENSION

[UNIT : mm]



B. MARKING: DARK BROWN SLEEVE & GOLD INK

< VIEW OF CAPACITOR >



< LOT No. : Sleeve or bottom plate marking. >

- 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 Korea : 1, China : <1>

< DATE CODE : Sleeve marking. >

- ① ② ③ ④ ① ②: YEAR : The ending of A.D.
③ ④: WEEKS : 01 ~ 52

C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE	: -40 ~ +85°C
B. RATED VOLTAGE	: 100 V _{DC}
C. SURGE VOLTAGE	: 125 V _{DC}
D. CAPACITANCE TOLERANCE	: ± 20% at 20°C, 120Hz
E. LEAKAGE CURRENT	: Lower 2000 μ A, after 5 minutes at 20°C
F. DISSIPATION FACTOR (TAN δ)	: Lower 0.20 at 20°C, 120Hz
G. MAX. RIPPLE CURRENT	: 2.75 Arms at 85°C, 120 Hz
H. TEMPERATURE CHARACTERISTIC (Max. Impedance ratio)	: Z(-25°C) / Z(20°C) = 4 Z(-40°C) / Z(20°C) = 15 (at 120Hz)

I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 2°C after the rated voltage is applied for 2,000 hours at 85°C.

- # Capacitance change : ≤ ±20 % of the initial value
- # Tan δ : ≤ 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 2°C after exposing them at max. operating temperature for ½ assurance load life time 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
- # Tan δ : ≤ 200 % of the initial specified value
- # Leakage current : ≤ The initial specified value

K. CHARGE & DISCHARGE : 5,000 times (at 70 °C)

After this test is completed, the capacitors shall be satisfied the following specifications.

- # Capacitance change : ≤ ±20% of the initial value. # Tan δ : ≤ 150% of the initial specified value
- # Leakage current : ≤ The initial specified value. # No visible damage and no leakage electrolyte where, charge resistance : 2.2 Ω charge conditions : rated volt. 1(A)
discharge resistance : 100Ω charge and discharge time : 30 sec(each)

L. CLEANING CONDITIONS : Non-solvent proof

M. OTHERS : Satisfied characteristic W of KS C 6421



SamYoung Electronics Co., Ltd.