

ALUMINUM ELECTROLYTIC CAPACITORS

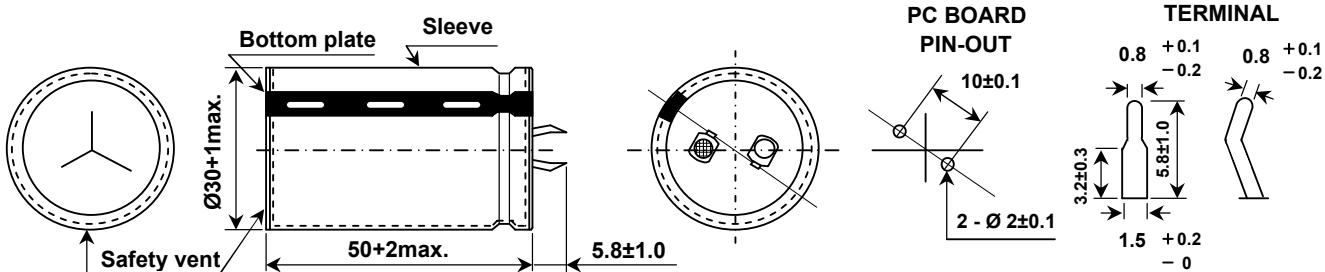
APPROVAL NO.

3418

AHS 63 VN 10000 (M)

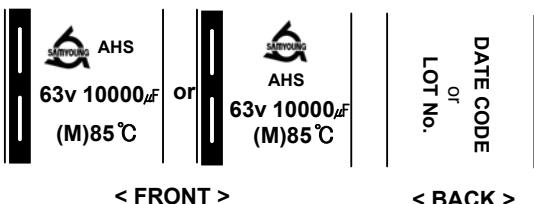
SERIES	AHS
RATING	63 WV 10000 μ F
CASE SIZE	\varnothing 30 x 50 L

A. DIAGRAM OF DIMENSION



B. MARKING: DARK BROWN SLEEVE & GOLD INK

< VIEW OF CAPACITOR >



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

- (1) (2) (3) (4)
or
(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 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	: <u>-40</u> ~ <u>+85</u> °C
B. RATED VOLTAGE	: <u>63 V_{DC}</u>
C. SURGE VOLTAGE	: <u>79 V_{DC}</u>
D. CAPACITANCE TOLERANCE	: <u>± 20%</u> at 20°C, 120Hz
E. LEAKAGE CURRENT	: Lower <u>2000 μA</u> , after 5 minutes at 20°C
F. DISSIPATION FACTOR (TANδ)	: Lower <u>0.30</u> at 20°C, 120Hz
G. MAX. RIPPLE CURRENT	: <u>3.23 Arms</u> at <u>85°C</u> , <u>120 Hz</u>
H. TEMPERATURE CHARACTERISTIC (Max. Impedance ratio)	: $Z(-25^\circ\text{C}) / Z(20^\circ\text{C}) = 4$ $Z(-40^\circ\text{C}) / Z(20^\circ\text{C}) = 15$ (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 : $\leq \pm 20\%$ of the initial value
Tanδ : $\leq 200\%$ 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 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 : $\leq \pm 20\%$ of the initial value
Tanδ : $\leq 200\%$ of the initial specified value
Leakage current : \leq 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 : $\leq \pm 20\%$ of the initial value. #Tan δ : $\leq 150\%$ of the initial specified value
#Leakage current : \leq The initial specified value. #No visible damage and no leakage electrolytic 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.