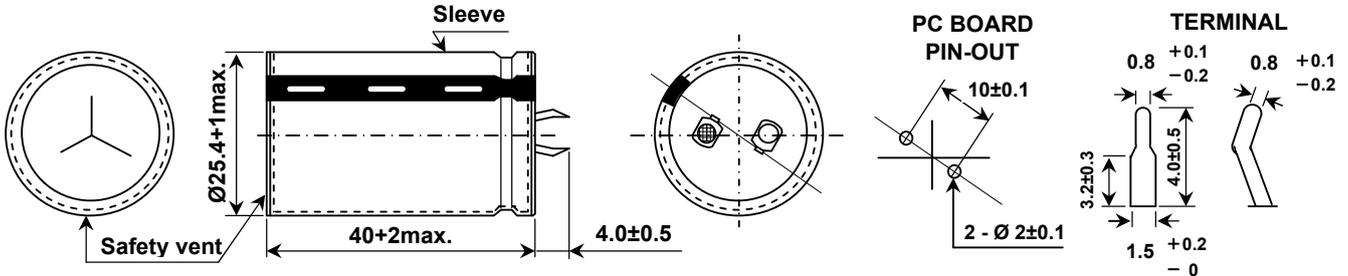


ALUMINUM ELECTROLYTIC CAPACITORS	APPROVAL NO.	
	3411	
TDC 450 VS 220 (M)	SERIES	TDC
	RATING	450 WV 220 μF
	CASE SIZE	\varnothing 25.4 × 40 L

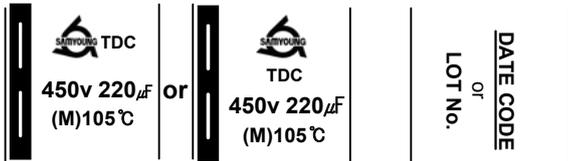
A. DIAGRAM OF DIMENSION

[UNIT : mm]



B. MARKING: BROWN SLEEVE & SILVER INK

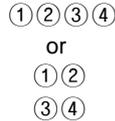
< VIEW OF CAPACITOR >



< FRONT >

< BACK >

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



- ①: The ending figure of manufactured year in
- 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.
Korea : 1, China : ≤1>

< DATE CODE : Sleeve marking. >



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

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 1980 μ A, after 5 minutes at 20°C
- F. DISSIPATION FACTOR (Tan δ) : Lower 0.2 at 20°C, 120Hz
- G. MAX. RIPPLE CURRENT : 1.05 Arms at 105°C, 120Hz
- H. TEMPERATURE CHARACTERISTIC
(Max. Impedance ratio) : $Z(-25^\circ\text{C}) / Z(20^\circ\text{C}) = \underline{8}$ (at 120Hz)
- I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 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 the exposing them at max. operating temperature for 1,000 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 : \leq ±20% of the initial value
 - # Tan δ : \leq 200% of the initial specified value
 - # Leakage current : \leq The initial specified value
- K. CLEANING CONDITIONS : Non-solvent proof
- L. OTHERS : Satisfied characteristics W of KS C 6421

	←	←	←

