

ALUMINUM ELECTROLYTIC CAPACITORS

Suntan®

CHIP TYPE SERIES

TS13CD

FEATURES

- Endurance : 105°C 5000H.
- Designed for High Voltage.
- Designed for reflow soldering.
- Designed for surface mounting on high-density PCB.



Fig 1

Fig 2



Fig 3

Note: Fig 1 & 2: Diameter 6.3 ~10mm

Fig 3 : Diameter: ≥12.5mm

◆ Specifications

ITEMS		PERFORMANCE CHARACTERISTICS	
Operating Temperature Range	-40°C ~ +105°C		
Rated Voltage Range	400V.DC		
Capacitance Range	1~22μF		
Capacitance Tolerance	±20% at 120Hz, 20°C		
Leakage Current (Max)	$I \leq 0.04CV (\mu A) + 100 (\mu A)$ after 5 minutes I = Leakage Current (μA) C = Nominal Capacitance (μF) V = Rated Voltage (V)		
Dissipation Factor (Max) Tan δ (20°C, 120Hz)	Rated Voltage (V)	400	
	Tan δ	0.25	
Endurance	After applying rated working voltage for 5000 hours at +105°C ± 2°C, and then being stabilized at +20°C, capacitors shall meet the following limits.		
	Capacitance Change	Within ±30% of the initial value	
	Dissipation Factor	Less than 300% of the initial value	
	Leakage Current	Within the initial limit	
Shelf Life	After storage for 1000 h at +105°C ± 2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in endurance.		
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20°C, capacitors shall meet the following limits.		
	Capacitance Change	Within ±10% of initial value	
	Dissipation Factor	Within the initial limit	
	Leakage Current	Within the initial limit	
Characteristics at Low Temperature	Impedance ratio at 120 Hz		
	Rated Voltage (V)	400	
	Z-25°C / Z+20°C	6	
	Z-40°C / Z+20°C	10	

◆ Drawing (Unit: mm)

Fig. 4 (Φ6.3 ~ Φ10)

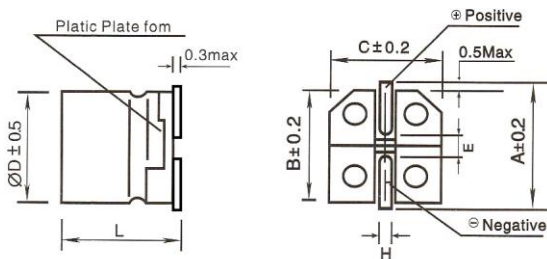
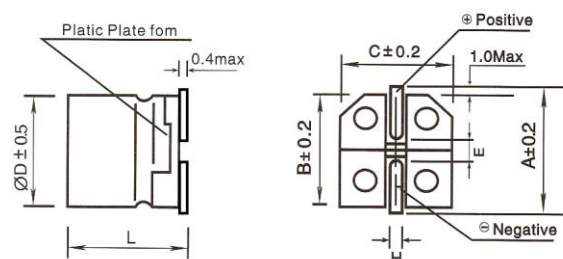


Fig. 5 (≥Φ12.5)



Markings: SuD, UD, VD

ΦD	L	A	B	C	E	H	Fig. No.
6.3	10.2 ± 0.6	7.2	8.3	8.3	2.1	0.5 ~ 0.9	4
8	10.5 ± 0.6	9.1	8.3	8.3	3.1	0.8 ~ 1.1	4
8	12.5 ± 0.6	9.1	10.3	10.3	3.1	0.8 ~ 1.1	4
10	10.5 ± 1.0	11.1	10.3	10.3	4.5	0.8 ~ 1.1	4
10	12.5 ± 1.0	11.1	8.3	8.3	4.5	0.8 ~ 1.1	4
12.5	13.5 ± 1.0	13.7	8.3	8.3	4.4	1.0 ~ 1.4	5

TS13CD

◆ Standard size

WV	400		
μF	DxL	Tan δ	mA
2.2	8x10.5	0.25	15
3.3	8x10.5	0.25	20
4.7	8x10.5 (8x12.5) (10x10.5)	0.25 (0.25) (0.25)	25 (30) (30)
5.6	8x12.5 (10x10.5)	0.25 (0.25)	35 (35)
6.8	10x10.5	0.25	45
8.2	10x12.5	0.25	55
10	10x12.5	0.25	60
	Case Size ØD×L(mm)	tan δ (120Hz / +20°C)	Rated ripple current (120Hz / +105°C)

◆ Frequency coefficient

Frequency	50Hz	120Hz	1kHz	10kHz ≤
Coefficient	0.70	1.00	1.30	1.40

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.