

# ALUMINUM ELECTROLYTIC CAPACITOR

Suntan®

GENERAL, LONG LIFE

## TS13D CD138

### FEATURES

- Load life of 5000 hours at 85°C
- Size may be selected
- High ripple current
- Used for computers, Communication powers, Hi-ripple circuit of electric vehicle, electric train, general-purpose inverter

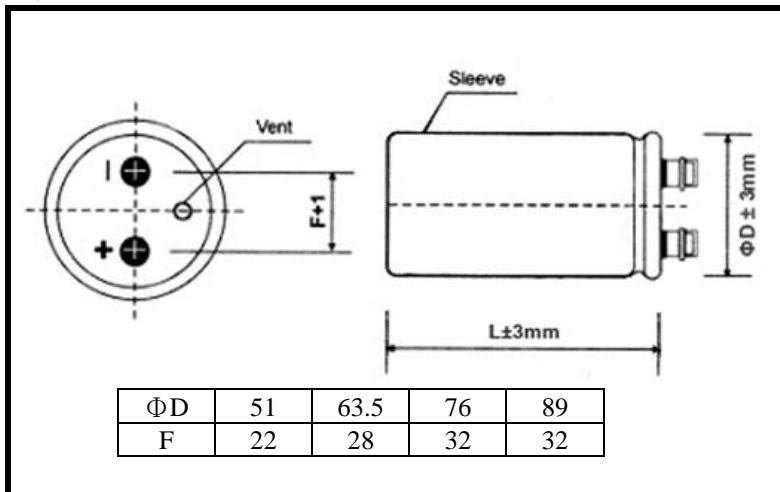


### ◆ Specifications

ITEMS		PERFORMANCE CHARACTERISTICS	
Rated Voltage Range(V)		350~450	
Operating Temperature Range(°C)		-40~+85	
Capacitance Tolerance(25°C,120Hz)		±20%	
Leakage Current (μA)		0.01CV or 5mA, whichever is smaller. (at 25°C, after 5 minutes) Where, C: Nominal capacitance (μF) V: Rated voltage (V)	
Dissipation Factor (25°C, 120Hz)		0.15	
Load Life (+85°C)	Time	5000hours	
	Leakage Current	Not more than the specified value	
	Capacitance Change	Within±20% of the initial value	
	Dissipation Factor	Not more than 200% of the specified value.	
Shelf Life (+85°C)	Time	500hours	
	Leakage Current	Not more than the specified value	
	Capacitance Change	Within ±20% of the initial value	
	Dissipation Factor	Not more than 200% of the specified value.	
		After Test: U <sub>R</sub> to be applied for 60 minutes, 24 to 48 hours before measurement	

### ◆ Dimensions

mm



### ◆ Multiplier for ripple current

#### Frequency coefficient

Frequency(Hz)	50,60	120	300	1K	≥10K
Factor	0.7	1.0	1.10	1.30	1.40

#### Temperature coefficient

Temperature(°C)	+40	+60	+85
Factor	1.89	1.67	1.0

#### ◆ Case code (mm)

ΦD \ L	80	100	120	130	160	200	240
51	C8	C10	C12	C13	---	---	---
63.5	D8	D10	D12	D13	D16	D20	---
76	---	E10	E12	E13	E16	E20	---
89	---	---	---	F13	F16	F20	F24

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## ◆ STANDARD RATINGS

WV (V)	350		400		450	
SV (V) / Cap (uF)	400		450		500	
1000			C8	5.0	C8	5.0
1200	C8	5.5	C8	5.5	C10	6.0
1500	C8	6.1	C10	6.7	C12	7.2
1800	C10	7.4	C10	6.7	C12	7.2
2200	C10	8.2	C13	9.2	D10	9.0
2700	C13	10.2	D10	9.9	D12	10.7
3300	C13	11.3	D12	11.8	D13	12.4
3900	D12	12.8	D13	13.5	D16	14.5
					E12	13.6
4700	D13	14.8			D16	15.9
					E12	14.9
5600	D16	17.3	D20	19.1	E16	18.3
6800	D20	21.1	E16	20.2	F16	21.4
8200	E16	22.1	F16	23.5	F16	23.5
10000	F16	25.9	F16	25.9	F20	28.3
12000	F16	28.4	F20	31.0	F24	33.6
15000	F20	34.6	F24	37.5		
			Ripple Current (Arms) 85°C 120Hz			
18000	F24	41.4	Case Code			

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