

TMCE21 Screw Terminal Aluminum Electrolytic Capacitor

1. Main content and apply scope

This document defined the requirements of electrolytic capacitor about technical parameters, test method and application.

In reference to this file about the product testing and quality judgment and new product development, described as follows:

Operating temperature range means the capacitor under the application of rated voltage condition, can work reliably time.

Unless otherwise specified, the measurement should be conducted under the following conditions:

Temperature:15 \sim 35 $^{\circ}$ C;

relative humidity:45~85%;

atmospheric pressure:86Kpa~106Kpa;

If the test result are undeterminable, it should be measured under the following conditions:

temperature:20±2°C

relative humidity:60~70%

atmospheric pressure:86Kpa~106Kpa

2. Main parameter

Category Temperature Range	-40~+85℃		
Capacitance (20℃, 120Hz)	6800(±20%)µF		
Rated Voltage	400V		
Surge Voltage	450V		
Rated Ripple Current (40℃, 120Hz)	38Arms		
Leakage Current	l≤0.01CV or 5mA,Whichever is smaller(μA),		
(20℃, 5min)	[C:Nominal Capacitance(μF),V:Rated voltage]		
Dissipation Factor	≤0.15		
Size	76.9×143.2		
(D×L) mm	Was a series of		
Reference Standard/Others	JISC 5101-4		

3. Characteristics

No.	Item	Characteristics	
3.1	Capacitance	Test Frequency: 120Hz±12Hz Test Voltage : ≤ 0.5Vrms +1.5~2.0V.DC Test Temperature: 20±2°C Tolerance capacitance: see the table 2.	
3.2	Leakage Current	Test condition and standard:See the table 2.	
3.3	Dissipation Factor	Test condition is the same with capacitance: See the table 2.	



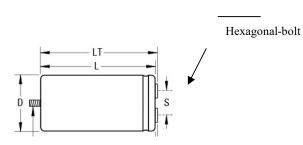
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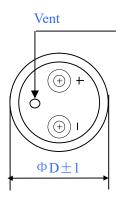
		<u> </u>	intum Electrolytic Capacitor		
		Under the temperature 15 ~ 35 °C, series a resistance 1K Ω and applied the surge voltage with the Period: Within 6±0.5minutes, 30±5 seconds charged.and then self-discharged, about 1000times. After the temperature returned to 20 °C, the capacitor must meet the specification :			
	Surge Voltage	Leakage Current	Not more than specified value		
		Capacitance change	Within ±15% of the initial value		
		Dissipation Factor	Not more than 200% of specified value		
		Appearance	Should not significantly be changed no leakage		
3.5	Shelf life	Storage without voltage applied applied for 30 minutes, 24 to 48 Leakage Current Capacitance change	at 85°C for 1000 hours and measured at 25 ±5°C, UR to be hours before measurement: Not more than200% of specified value Within ±20% of the initial value		
		Dissipation Factor	Not more than 200% of specified value		
3.6 Endurance	Leakage Current Capacitance change Dissipation Factor	Not more than specified value Within ±20% of the initial value Not more than200% of specified value			
3.7	Endurance against Vibration	10-55-10Hz about 1 minute	e: 10~55Hz; Total Amplitude: 1.5mm; Rate of Scanning: X-Y-Z 2hours for each direction, total 6hours. Should not significantly be changed Within ±5% of the initial value		
3.8	Pressure Relief Vent Performance	Apply 10A DC reverse current, in 30 minutes, pressure relief vent should properly function and metal pieces should not be dispersed, there are no irregularities.			



5. Dimensions

PVC/sleeve





LT ± 2 D ± 1

Screw Terminal

Terminal Size

Terminal type	Diameter (D)	Distance of terminal(P)	Screw Thread	Diameter of terminal	Height of terminal(T)	With Stud (M12)
M6	76	32	M6	10	5	12mm*16mm

6. Marking

Name of Brand: TOPMAY

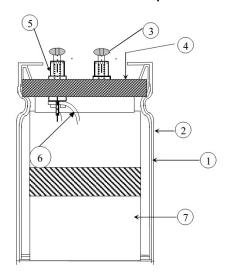
Series:

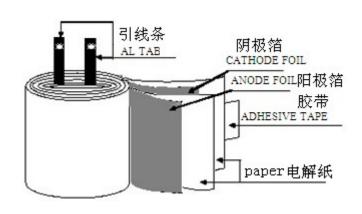
Color of sleeve: Black Color of marking: White Rated Voltage: 400VDC Rated Capacitance: 6800UF Surge Voltage: 450VDC



Polarity

7. Structure of the cap







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No.	Material	Туре
1	Can	Al 99.5%
2	Sleeve/Bottom disc	PVC/PET
3	rivet	Al
4	Cover disc	phenolic resin
5	Anode foil	Al
6	Cathode foil	Al
7	Tab	Al
8	Paper	paper pulp
9	Electrolyte	Glycol+organic acid salt

8. This product is in full compliance with RoHS Directive $_{\circ}$

