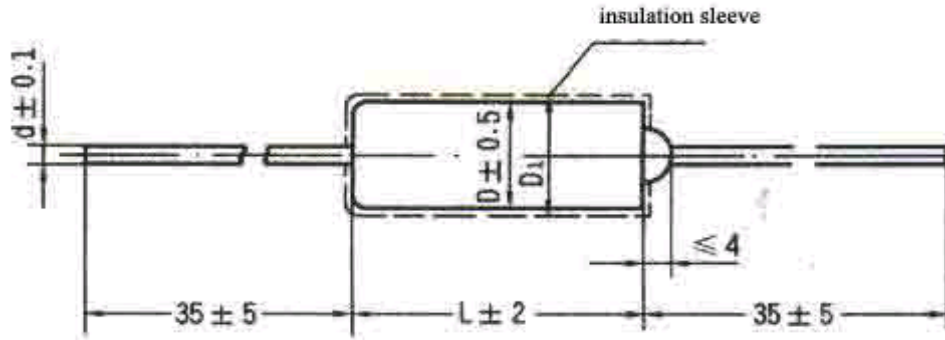


Introduction

TCM Series metal-cased solid tantalum electrolytic capacitors with polar axial leads are characterized in small size, wide operating temperature range, stable performances, high reliability and long life, TCM Series meets the requirements of Chinese National Standard GB8583-88, widely used in instruments meters and other electronic equipment for military and civil applications.

Features

1. Temperature Range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C} > 85^{\circ}\text{C}$ (with rated voltage derating).
2. Capacitance Tolerance: $\pm 20\%$, $\pm 10\%$ DC Leakage at 20°C : please see Table 1
3. Temperature Characteristics: See table 1
4. Nominal Capacitance, Rated voltage, Voltage Derating, Dimensions and Max. weight: shown in Table 2 and figure 1


Temperature Characteristics
Table 1

Cap. (uF)	Change of Cap.			Max						
				Dissipation factor (tg δ 2%)				Current Leakage (uA)		
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+20°C	+85°C	+125°C
≤1	±8	±8	±12	6	4	6	6	I ₀ =0.02 C _R U _R or 1uA (Select the great)	10I ₀	12.5I ₀₍₁₎
1.5~68				8	6	8	8			
100~330				12	10	12	12			
470				15	12	15	15			

Dimensions, Rated Voltage and Capacitance.
Table 2

Rated Voltage (V)				6.3	10	16	25	32	40	63	75	100
Derating Voltage (V)				4.0	6.3	10	16	20	25	40	50	63
Case Size	D*L (mm)	D (mm)	Max Wt. (g)	Capacitance (uF)								
1	3.2×8	0.4	0.7	1.0	0.68	0.33	0.33	0.22	0.22	0.22	0.22	0.1
				1.5	1	0.47	0.47	0.33	0.33	0.33	0.33	0.15
				2.2	1.5	0.68	0.68	0.47	0.47	0.47		0.22
				3.3	2.2	1	1	0.68	0.68			
				4.7	3.3	1.5	1.5	1	1			
				6.8	4.7	2.2	2.2	1.5				
2	5×12	0.6	2.5			4.7						
				15.0	10	6.8	0.33	2.2	1.5	0.68	0.47	0.33
				22.0	15	10	4.7	3.3	2.2	1	0.68	0.47
				33.0	22	15	6.8	4.7	3.3	1.5	1	0.68
				47.0	33	22	10	6.8	4.7	2.2	1.5	1
3	6×14	0.6	3.5	100.0	68	47	22	15	10	4.7	3.3	2.2
					100	68	33		15		4.7	3.3
4	8×14	0.8	6	150.0	150	100	47	22	22	6.8	6.8	4.7
				220.0			68		33		33	10
5	8×22	0.8	10	330.0	220	150	100	47	47	15	15	10
				470.0								

Note: Other Case can be available upon your request.