

1、SCOPE

This specification applies to CA53 series axial wet tantalum electrolytic capacitor (200°C) produced by Shenzhen Be-Top Electronic Components Co., Ltd.



2、Brief Introduction

CA53 series wet electrolyte tantalum capacitors (200°C) are fully sealed and silver coating sealed with polar axial leads. The series capacitors are characterized by low DC Leakage, low dissipation factor, stable performances, high reliability and long life. It has good performance in high-temp environment. It can be used in the conditions of 200°C. CA53 Series meets the standard QJ/PWV307-2009 and it is widely used in oil & gas exploration & drilling equipments.

3、General Specification

- 1) Operating Temperature: -55 °C ~+200 °C (using derating voltage when the temperature is higher than 85°C). (see table 1)
- 2) Capacitance Tolerance: ±10% (K) , ±20% (M), -10%~+30% (S)
- 3) Current Leakage:
 - At 25 °C: $I_0 \leq 0.001 C_R U_R$ (μA) or 1μA (Whichever is greater)
 - At 85 °C: $I_0 \leq 0.008 C_R U_R$ (μA) or 8μA (Whichever is greater)
- 4) Dissipation Factor at 25 °C 100Hz frequency(see table 1).
- 5) Product Dimension and max weight (see table 2).

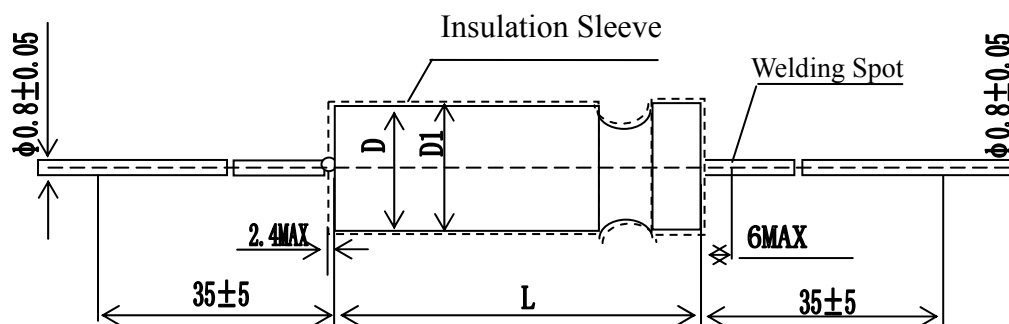
Table 1: Relation between Rated Voltage, Derating Voltage and Capacitance

Rated Voltage U_R (V) 25°C, 85°C	Derating Voltage U_c (V)		Case Code	Capacitance C_R (μ F)	tg δ (%) 25°C	Rated Voltage U_R (V) 25°C, 85°C	Derating Voltage U_c (V)		Case Code	Capacitance C_R (μ F)	tg δ (%) 25°C
	125°C	200°C					125°C	200°C			
50	30	30	1	68	25	100	65	60	1	15	15
			2	220	28				3	68	25
			4	470	30				5	150	28
			6	680	35				6	220	28
60	40	36	1	47	25	125	85	75	1	10	13
			2	150	28				3	47	20
			4	390	30				3	50	20
			6	560	35				5	100	25
75	50	45	1	33	12				6	150	28
			2	110	25						
			5	330	30						
			6	470	30						

Table 2: Product Dimension and Max Weight

Case Code	Max Weight (g)	Without Insulation Sleeve		With Insulation Sleeve	
		$D \pm 0.5(\text{mm})$	$L \pm 2(\text{mm})$	$D_1 \text{max}(\text{mm})$	$L \text{max}(\text{mm})$
1	4	6	15	6.8	16
2	5	8	17	8.8	18
3	7	8	22	8.8	18
4	10	10	22	10.8	24
5	14	10	25	10.8	27
6	17	10	30	10.8	32

Figure of Product



How to order

CA53-227M050

CA53	227	M	050
Type	Capacitance	Tolerance	Rated Voltage
CA53 Series axial wet tantalum capacitor (200°C)	227=220 μ F	K=±10% M=±20% S=−10%~+30%	50V=050
			60V=060
			75V=075
			100V=100
			125V=125