CA Series solid Electrolytic Tantalum Capacitor

Distributeur : JBG-METAFIX

Brief Introduction

- Metal case encapsulation, Hermitically-sealed, Tubular, Axial-leaded, With Insulation Sleeve, Heteropolarity;
- Stable in Electrical Characteristics,High Reliability,Long life-span, Low DF&DCL;
- Applicable to DC&Pulse current of communications-equipments and instruments;
- Executive Standard: GB9583-88;

Features

- Operaing Temperature Range:-55℃~+125℃ (>85℃ with rated voltage derating) ;
- Capacitance tolerance:K : ±10%; M: ±20%;
- DC leakage At+25℃: $I_0 \leq 0.01 C_R U_R$ (μA) or 0.5μA (Choose the greater one) ;
- Dimensions & Max Weight: See Table 1 & Figure1;
- Temperature Characteristics: Not exceed the parameter in figure2;
- Rated Voltage, Derating Voltage, Nominal Capacitance: See figure 3;

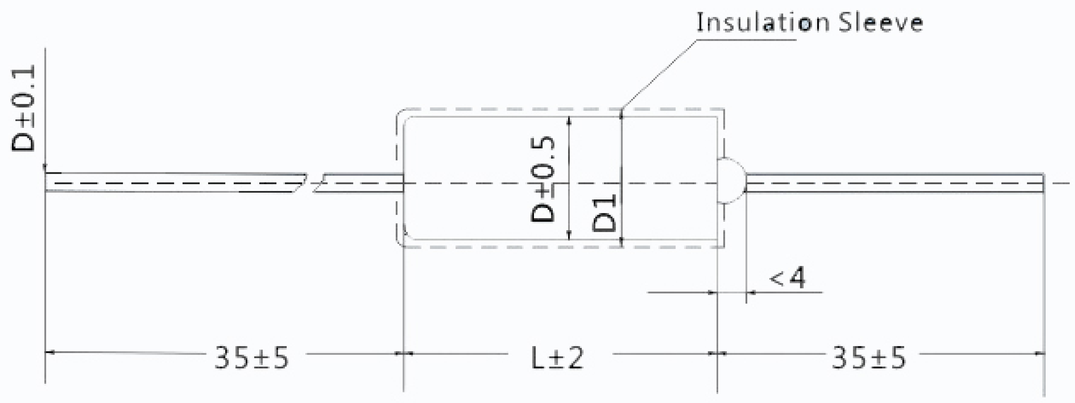

Table 1 Dimensions

Case Code	Max Weight	With no Plastic Insulation Sleeve		With Plastic Insulation Sleeve		d±0.1 (mm)
		D±0.5 (mm)	L±2 (mm)	D1max (mm)	Lmax (mm)	
1	0.7	3.2	8	4.0	10	0.4
2	2.3	5	12	5.8	14	0.6
3	3.0	6	14	6.8	16	0.6
4	4.0	8	14	8.8	16	0.8
5	8.0	8	22	8.8	24	0.8
6	14.0	10	22	10.8	24	0.8

Table2 Temperature Characteristics

Nominal Capacitance C_R (μF)	Max								
	Range of Capacitance			Max				DCL	
	-55 ℃	85 ℃	125 ℃	-55 ℃	25 ℃	85 ℃	125 ℃	85 ℃	125 ℃
≤1.0	±8	±8	±10	3	3	3		$8I_0$	$10I_0$
1.5~68				5	5	5			
100~330				6	6	6			
470~1000				8	8	8			

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Table 3 Electrical Characteristics

Rated Voltage	6.3	10	16	25	32	40	63	75	100
Derating Voltage	4	6.3	10	16	20	25	40	50	63
Case Code	Nominal Capacitance C_R(μF)								
1	1.0	0.68	0.33	0.33	0.22	0.22	0.22	0.22	0.047
	1.5	1.0	0.47	0.47	0.33	0.33	0.33	0.33	0.068
	2.2	1.5	0.68	0.68	0.47	0.47	0.47		0.1
	3.3	2.2	1.0	1.0	0.68	0.68			0.15
	4.7	3.3	1.5	1.5	1.0	1.0			0.22
	6.8	4.7	2.2	2.2	1.5				0.33
	10	6.8	3.3						
2	15	10	4.7	3.3	2.2	1.5	0.68	0.47	0.47
	22	15	6.8	4.7	3.3	2.2	1.0	0.68	0.68
	33	22	10	6.8	4.7	3.3	1.5	1.0	1.0
	47	33	15	10	6.8	4.7	2.2	2.2	1.5
	68	47	22	15	10	6.8	3.3		
			33						
3	100	68	47	22	15	10	4.7	3.3	2.2
		100	68	33		15		4.7	3.3
4	150	150	100	47	22	22	6.8		
	220			68	33	33	10		
5	330	220	150	100	47	47	15		
	470	330	220		68		22		
6	680	470	330	150	100	68	33		
	1000	680	470	220	150	100	47		

P.S. : 1 Please do not use multimeter through the measuring procedures.

2 Capacitance and DF measured at :100Hz , $U_{_}$ =2.2°$_{-1.0}$V , $U_{\sim}$=1.0°$_{-0.5}$V, Frequency=100Hz.

Test only applied in series equivalent circuit.

3 Voltage derating is applied at +125℃. (The DCL parameter should be read after 5minutes when it connected to the circuit) .

4 Special size and demand could consult with us.