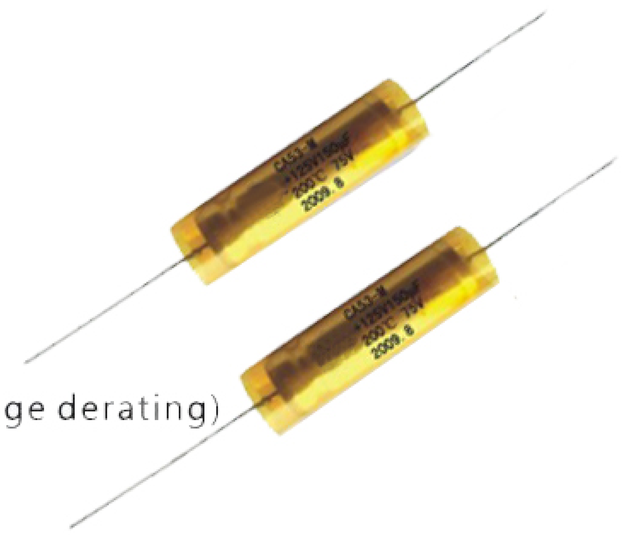
CA53 Series Hermitically-sealed, Non-solid Electrolytic Tantalum Capacitor

Brief Introduction

- Silver Fabric , Hermetically-Sealed Tubular, Axial-lead , With insulation sleeve , Heteropolarity ;
- Stable in Electrical Characteristics, High reliability, Long life-span, Low DF&DCL , Electrical parameters is alike VISHAY134D;
- Small in Size , Excellent working ability under High Temperature, Available in 200℃;
- Applying in Petroleum deep-well' s measurement &drilling such High-Temperature resistance Electrical Equipments with DC& Impulse Circuit for Military and Civil use;



Features

- Operating Temperature Range: -55℃~+200℃(when >85℃ , with rated voltage derating)
- Capacitance Tolerance: K: ±10% ; M:±20% , Q : -10%~+30%;
- DF at 25℃ , 100Hz : See Table2 ;
- DCL : at 25℃ $I \le 0.001 C_R U_R$ (μA) or 1μA (Choose the greater oner)
  at 85℃ $I \le 0.008 C_R U_R$ (μA) or 8μA (Choose the greater one)
  At 200℃ $I \le 0.04 C_R U_R$ (μA) or 40μA (Choose the greater one)

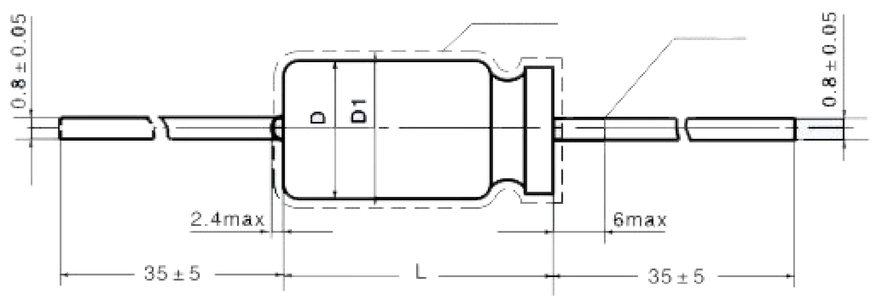


Table1 Dimensions and Max weight

Case Size	Max Weight	with no Insulation Sleeve		with Insulation Sleeve	
		D±0.5 (mm)	L±2 (mm)	D_1max (mm)	L max (mm)
2	4	6	15	6.8	17
3	5	8	17	8.8	19
4	7	8	22	8.8	24
5	10	10	22	10.8	24
6	14	10	25	10.8	27
7	17	10	30	10.8	32

Table2 Electrical Characteristics

U_R(V) Rated Voltage		U_C(V) Derating Voltage		Case Code	Nominal Capacitance C_R (μF)	tgδ (%) 25℃
25℃	85℃	125℃	200℃			
50	30	30		2	68	25
				3	100	25
				3	120	25
				4	220	28
				6	330	30
				7	470	30
				7	560	33
				7	680	35
60 (63)	40 (42)	36 (38)		2	47	25
				4	150	28
				5	220	30
				5	330	30
				6	390	30
				7	470	35
				7	560	35
75	50	45		2	33	12
				3	82	20
				3	110	25
				5	180	25
				5	220	25
				6	330	30
				7	470	30

U_R(V) Rated Voltage		U_C(V) Derating Voltage		Case Code	Nominal Capacitance C_R (μF)	tgδ (%) 25℃
25℃	85℃	125℃	200℃			
100	65	60		2	15	15
				3	33	20
				4	47	25
				4	68	25
				5	120	25
				6	150	28
				7	220	28
125	85	75		2	10	13
				5	47	20
				5	50	20
				6	68	25
				7	82	25
				7	100	25
				7	120	25
				7	150	28

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

2 Capacitance and DF measured at :100Hz , U _ =2.2°-1.0V , U~=1.0°-0.5V, Frequency=100Hz.
Test only applied in series equivalent circuit.

3 Voltage derating is applied at +85℃. (The DCL parameter should be read after 5minutes when it connected to The circuit) .

4 Special size and demand could consult with us.