



CA53-200°C Wet Tantalum Capacitor

Silver case, hermetic seal

Characteristics and Application

- ◆ Silver case, **Hermetic Sealed**, tubular, Axial leads, High temperature sleeve, Polar
- ◆ Good electric performance, High reliability, long life, Low DF and LC.
- ◆ Small Size, High temperature performance, Can use at 200 °C.
- ◆ Suit for down-hole-drilling instrumentation and high temperature electronic devices DC or pulse circuit.
- ◆ Implementation of standards: QJ/PWV307-2009,
Can cross Vishay's 134D



Technical Performance:

Operation temperature: -55°C~+200°C (>85°C use derated voltage)

Capacitance Tolerance: K=±10%; M=±20%; Q:-10%~+30%

Dissipation Factor: 25°C, 100Hz (see table 2)

Leakage current:

25°C $I \leq 0.001 C_R U_R$ (μA) or 1 μA (whichever is greater)

85°C $I \leq 0.008 C_R U_R$ (μA) or 8 μA (whichever is greater)

200°C $I \leq 0.04 C_R U_R$ (μA) or 40 μA (whichever is greater)

Diagram of Dimension (mm)

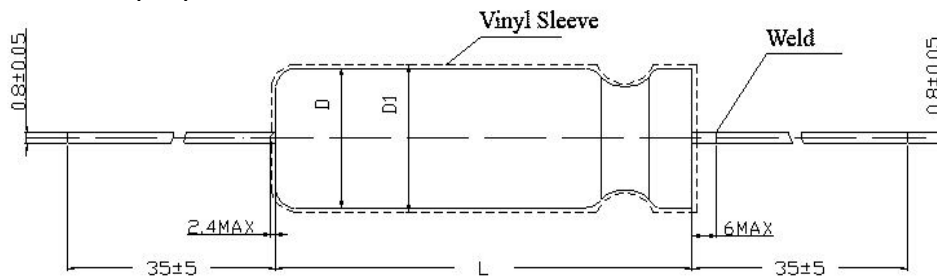


Table1 Case size and maximum weight

Case code	Max weight (g)	Without Sleeve		With Sleeve	
		D±0.5	L±2	D ₁ max	L max
		(mm)	(mm)	(mm)	(mm)
1	4	6	15	6.8	17
2	5	8	17	8.8	19
3	7	8	22	8.8	24
4	10	10	22	10.8	24
5	14	10	25	10.8	27
6	17	10	30	10.8	32



Table2 General parameters

Rated Voltage U _R (V) 25°C,85°C	Derated Voltage U _C (V)		Case code	Cap C _R (μF)	tgδ(%) DF 25°C	Rated Voltage U _R (V) 25°C,85°C	Derated Voltage U _C (V)		Case code	Cap C _R (μF)	tgδ(%) DF 25°C									
	125°C	200°C					125°C	200°C												
50	30	30	1	68	25	75	50	45	4	220	25									
			2	100	25				5	330	30									
			2	120	25				6	470	30									
			60	40	36	3	220	28	100	65	60	1	15	15						
						5	330	30				2	33	20						
						6	470	30				3	47	25						
						6	560	33				3	68	25						
						6	680	35				4	120	25						
						60 (63)	40 (42)	36 (38)				1	47	25	125	85	75	5	150	28
												3	150	28				6	220	28
4	220	30	1	10	13															
4	330	30	4	47	20															
5	390	30	4	56	20															
6	470	35	5	68	25															
6	560	35	6	82	25															
75	50	45	1	33	12				6	100	25									
			2	82	20				6	120	25									
			2	110	25				6	150	28									
			4	180	25															

How to order

(Part No.: GTCA53 227 K 0604)

GT	CA53	227	K	060	4
Brand Name	Type	Capacitance	Tolerance	Rated voltage /DC	Case code
Green Tech	Silver case hi-temp. Wet Tantalum Capacitor	227 22X10 ⁷ (pF)This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K=±10% M=±20%	50V=050 60V=060 75V=075 100V=100 125V=125	See table 1

Notes:

- 1、Tantalum capacitors can't been measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2、Capacitance, DF measure frequency: 100Hz, U=2.2_{0.10}V, U=1.0_{0.5}V(effective value)
- 3、Measure leakage current above 85°C,please use derated voltage.
- 4、Special size and big capacitance products, please negotiate with us