



CA501 High-Temp Wet Tantalum Capacitor

Glass seal, for 175°C operation

Characteristics and Application

- ◆ Silver case, glass sealed, Tubular, Axial leads, High temperature sleeve, Polar
- ◆ Good electric performance, High reliability, long life, Low DF and LC.
- ◆ High temperature performance, Can use at 175 °C
- ◆ Suit for down-hole-drilling instrumentation and high temperature electronic devices DC or pulse circuit.
- ◆ Implementation of standards: QJ/PWV223-2008



Technical Performance

Operation temperature: -55°C~+175°C (>155°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≤0.002CRUR (μA) or 2μA (whichever is greater)

85°C I≤0.01CRUR (μA) or 10μA (whichever is greater)

175°C I≤0.03 CRUR (μA) or 30μA (whichever is greater)

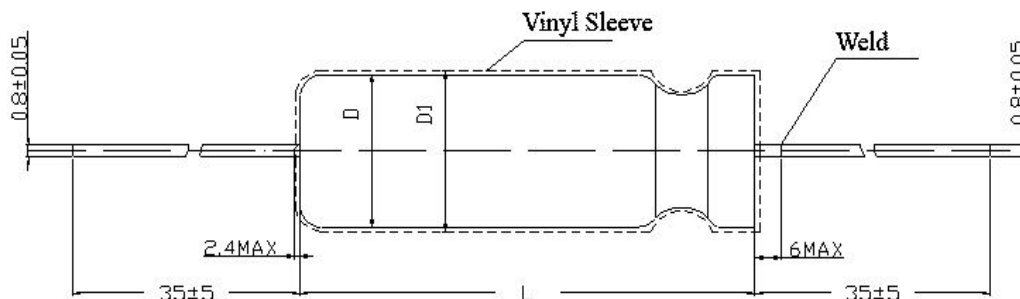


Table1 Case size and Maximum weight

Case Code	Max. Weight (g)	Without Sleeve		With Sleeve	
		D±0.5 (mm)	L±2 (mm)	D1max (mm)	L max (mm)
1	4	5	14	5.8	16
2	5	6	16	6.8	18
3	7	8	16	8.8	18
4	10	8	22	8.8	24
5	14	10	22	10.8	24
6	17	10	25	10.8	27
7	20	10	30	10.8	32



Table2 Rated Voltage,derated voltage, capacitance, case code and dissipation factor

Rated Voltage U _R (V)	Derated Voltage U _C (V)	Case Code	Cap. C _R (μF)	tgδ(%) 25°C	Rated Voltage U _R (V)	Derated Voltage U _C (V)	Case Code	Cap. C _R (μF)	tgδ(%) 25°C				
6.3	3	1	22	45	25	13	2	47	30				
		1	33	45			2	68	30				
		1	47	45			2	100	40				
		1	68	45			3	150	45				
		2	100	50			4	220	60				
		2	150	50			4	330	60				
		3	220	70			5	470	65				
		3	330	75			6	680	70				
		4	470	95			1	4.7	15				
		4	680	95			1	6.8	20				
		5	1000	100			1	10	20				
		5	1200	120			1	15	25				
		10	5	1			15	40	40	20	1	22	30
				1			22	40			2	33	30
1	33			40	2	47	35						
1	47			45	2	68	30						
1	68			45	3	100	45						
2	100			50	4	150	45						
2	150			60	5	220	45						
3	220			65	5	330	50						
3	330			80	6	470	60						
4	470			85	7	680	80						
4	680			85	1	3.3	10						
16	8	1	4.7	20	50	25	1	4.7	15				
		1	10	30			1	6.8	15				
		1	15	30			1	10	15				
		1	22	35			2	15	15				
		1	33	35			2	22	20				
		1	47	40			2	25	20				
		2	68	40			2	33	25				
		2	100	45			2	39	25				
		3	150	45			3	47	25				
		3	220	70			4	68	35				
		4	330	80			4	100	35				
		4	470	85			5	150	30				
		5	680	90			6	220	35				
		25	13	1			4.7	20			6	330	40
1	6.8			20	7	560	50						
1	10			20									
1	15			20									
1	22			25									
1	33			25									



Table2 Continuation

Rated Voltage U _R (V)	Derated Voltage U _C (V)	Case Code	Cap. C _R (μF)	tgδ(%) 25°C	Rated Voltage U _R (V)	Derated Voltage U _C (V)	Case Code	Cap. C _R (μF)	tgδ(%) 25°C		
63	32	1	3.3	10	75	37	5	68	30		
		1	4.7	15			6	120	30		
		1	6.8	15	100	50	1	3.3	10		
		1	10	15			1	4.7	15		
		2	15	15			2	6.8	20		
		2	18	15			3	10	25		
		2	22	20			3	15	35		
		3	33	25			3	22	35		
		3	47	25			4	33	33		
		4	68	35			5	47	30		
		4	75	35			6	68	30		
		4	82	35			7	100	30		
		5	100	35			7	220	35		
		6	150	30			125	63	1	2.2	10
		6	220	35					1	3.3	10
7	470	50	2	4.7	15						
75	37	1	3.3	10	2	6.8			25		
		1	4.7	10	3	10			25		
		1	6.8	15	3	15			30		
		2	10	20	4	22			35		
		2	15	25	5	33	30				
		3	22	35	6	47	35				
		3	33	35	6	56	40				
		4	47	33	7	100	50				

How to order

(Part No.: GTCA501 686 K 063 4)

GT	CA501	686	K	063	4
Brand Name	Type	Capacitance	Tolerance	Rated voltage /DC	Case code
Green Tech	Silver case hi-temp. Wet Tantalum Capacitor	686 68X10 ⁶ (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%	6.3V=006 10V=010 ... 100V=100 125V=125	See table1

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_r=2.2_{1.0}V, U_c=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