



## CA501S High Temperature Wet Tantalum Capacitor

(Glass seal, for 155°C operation)

### Characteristics and Applications

- ◆ Silver case, Half 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 155 °C**
- ◆ Suit for down-hole-drilling instrumentation and high temperature electronic devices DC or pulse circuit.
- ◆ Implementation of standards: QJ/PWV220-2008



### Technical Performance

Operation temperature: -55°C~+155°C

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

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

leakage Current:

25°C  $I \leq 0.002 C_R U_R$  ( $\mu A$ ) or  $2\mu A$  (whichever is greater)

155°C  $I \leq 0.02 C_R U_R$  ( $\mu A$ ) or  $20\mu A$  (whichever is greater)

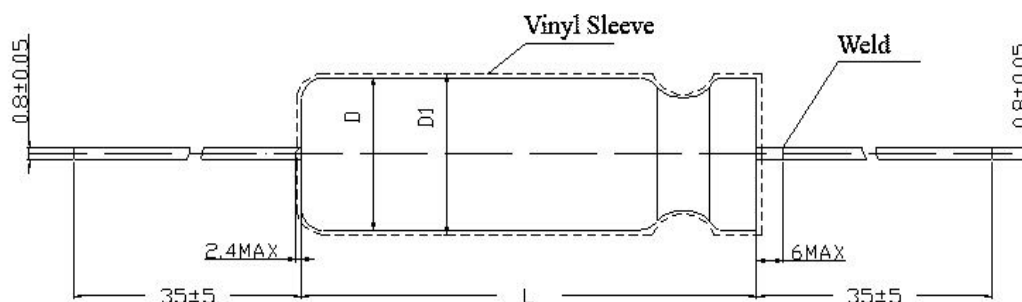


Table1 Case size and Maximum weight

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 <sub>R</sub> (V)	Derated Voltage U <sub>C</sub> (V)	Case Code	Cap. C <sub>R</sub> (μF)	tgδ(%) 25°C	Rated Voltage U <sub>R</sub> (V)	Derated Voltage U <sub>C</sub> (V)	Case Code	Cap. C <sub>R</sub> (μF)	tgδ(%) 25°C
6.3	3	1	22	45	40	20	1	4.7	15
		1	33	45			1	6.8	20
		1	47	45			1	10	20
		1	68	45			1	15	25
		2	100	50			1	22	30
		2	150	50			2	33	30
		3	220	70			2	47	35
		3	330	75			2	68	30
		4	470	95			3	100	45
		4	680	95			4	150	45
		5	1000	100			5	220	45
10	5	1	15	40	50	25	1	3.3	10
		1	22	40			1	4.7	15
		1	33	40			1	6.8	15
		1	47	45			1	10	15
		1	68	45			2	15	15
		2	100	50			2	22	20
		2	150	60			2	33	25
		3	220	65			3	47	25
		3	330	80			4	68	35
		4	470	85			4	100	35
		4	680	85			5	150	30
16	8	1	10	30	63	32	1	3.3	10
		1	15	30			1	4.7	15
		1	22	35			1	6.8	15
		1	33	35			1	10	15
		1	47	40			2	15	15
		2	68	40			2	22	20
		2	100	45			3	33	25
		3	150	45			3	47	25
		3	220	70			4	68	35
		4	330	80			5	100	35
		4	470	85			6	150	30



Table2 Continuation

Rated Voltage U <sub>R</sub> (V)	Derated Voltage U <sub>C</sub> (V)	Case Code	Cap. C <sub>R</sub> (μF)	tgδ(%) 25°C	Rated Voltage U <sub>R</sub> (V)	Derated Voltage U <sub>C</sub> (V)	Case Code	Cap. C <sub>R</sub> (μF)	tgδ(%) 25°C
25	13	1	6.8	20	75	37	1	3.3	10
		1	10	20			1	4.7	10
		1	15	20			1	6.8	15
		1	22	25			2	10	20
		1	33	25			2	15	25
		2	47	30			3	22	35
		2	68	30			3	33	35
		2	100	40			4	47	33
		3	150	45			5	68	30
		4	220	60			6	120	30
		4	330	60					
100	50	1	3.3	10	125	63	2	2.2	10
		2	4.7	15			2	3.3	10
		2	6.8	20			3	4.7	15
		3	10	25			3	6.8	25
		3	15	35			3	10	25
		4	22	35			4	15	30
		5	33	33			5	22	35
		6	47	30			6	33	30
		7	68	30			7	47	35

How to order

(Part No.: GTCA501S 337 K 016 4)

GT	CA501S	337	K	016	4
Brand Name	Type	Capacitance	Tolerance	Rated voltage /DC	Case code
Green Tech	Silver case hi-temp. Wet Tantalum Capacitor	337 37X10 <sup>7</sup> (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 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<sub>r</sub>=2.2<sup>0</sup><sub>1.0</sub>V, U<sub>-</sub>=1.0<sup>0</sup><sub>0.5</sub>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