CA501 High-Temp Wet Tantalum Capacitor

Glass seal, for 175℃ 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 ℃
- ◆ 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℃~+175℃ (>155℃ use derated Voltage)

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

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

leakage current：

25℃ I≤0.002CRUR（μA）or 2μA (whichever is greater)

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

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

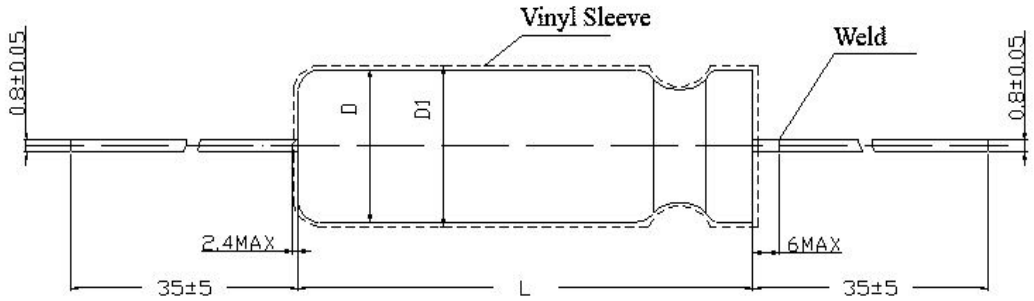

Table1 Case size and Maximum weight

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℃	Rated Voltage U_R(V)	Derated Voltage U_C(V)	Case Code	Cap. C_R(μF)	tgδ(%) 25℃
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	40	20	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			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	50	25	1	3.3	10
16	8	1	4.7	20			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℃	Rated Voltage U_R(V)	Derated Voltage U_C(V)	Case Code	Cap. C_R(μF)	tgδ(%) 25℃
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，$U_{=}$=2.2$^{0}_{-1.0}$V，$U_{\sim}$=1.0$^{0}_{-0.5}$V(effective value)

3、Measure leakage current above 85℃,please use derated voltage.

4、Special size and big capacitance products, please negotiate with us