



CA301 Wet Tantalum Capacitor

1, Brief Introduction

CA301 Series wet electrolyte tantalum capacitors

With polar axial leads are characterized in small size, low DC Leakage,

Silver case, stable and excellent performances, high reliability and long life.

Series meets the requirements of Chinese Electronic industry standard QZJ840628, QJ/PWV77-2003,

widely used in electronic equipment for military and civil applications

such as telecommunication, aerospace and aviation.



2, Technical Characteristics

Operating Temperature Range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ($>85^{\circ}\text{C}$ use derated voltage)

Capacitance Tolerance: M= $\pm 20\%$, K= $\pm 10\%$

DC Leakage: at $+25^{\circ}\text{C}$, $I_0 \leq 0.0008C_R U_R$ or $1\mu\text{A}$ (Whichever is greater);

at $+85^{\circ}\text{C}$ $I_0 \leq 8 I_0$ or $8\mu\text{A}$ (Whichever is greater)

At $+125^{\circ}\text{C}$, $I_0 \leq 8 I_0$ or $8\mu\text{A}$ (Whichever is greater)

Dissipation factor (tg δ) at 25°C please see table 2

3, Outline and dimensions:

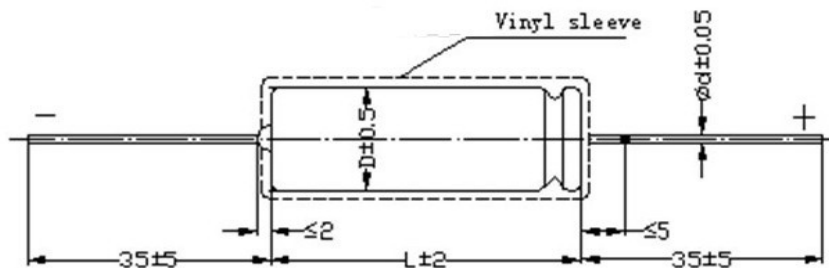


Table 1 case code and dimension:

Case Code	Max. weight (g)	Uninsulated		With insulated sleeve	
		D (mm)	L (mm)	D (mm)	L (mm)
0	3	5	10	5.8	12
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
8	25	12	30	12.8	32
9	30	12	36	12.8	38
10	35	14	36	14.8	38
11	55	14	48	14.8	50
12	65	16	48	16.8	50
13	80	19	58	19.8	60



Table 2 Dissipation factor at 25°C

Dissipation Factor (%)	Capacitance (uF)																	
	1-4.7	6.8	10	15	22	33	47	68	100	150	220	330	470	680	1000	1500	≥2200	
Rated Voltage(V)																		
6.3					15	20	25	30	35	40	70	50	85	80	90			
10				10	15	15	15	30	20	50	45	70	75	65	80	90	110	
16			10	10	10	12	20	20	35	35	60	70	50	70	90	90	110	
25		8	8	10	10	20	15	30	25	50	50	40	50	80	80	80	100	
40	6	8	8	10	20	12	25	20	35	35	30	40	45	80	80	80	100	
63	6	8	8	10	18	12	25	25	20	28	40	40	45	80	80	80	100	
100	6	8	10	18	15	25	28	20	25	40	45	45	45					
125	6	8	15	15	20	23	20	23	30	40	45	45	45					

Table 3 Rated voltage, derated voltage, dimensions and nominal capacitance.

Rated Voltage(V)		6.3	10	16	25	40	63	100	125
Derated Voltage(V)		4	6.3	10	16	25	40	63	75
Case Code	Max. Weight (g)	Nominal Capacitance(μF)							
0	3	15,22,33,47,68	10,15,22,33,47	6.8,10,15,22,33	4.7,6.8,10,15,22	4.7,6.8,10,15	2.2,3.3,4.7,6.8	1.5,2.2,3.3,4.7	1.0,1.5,2.2,3.3
1	4	100,150	68,100	47,68	33,47	22,33	10,15	6.8,10	4.7,6.8
2	5	220,330	150,220	100,150	68,100	47,68	22,33	15,22	10,15
3	7	470,680	330,470	220,330	150,220	100,150	47,68	33,47	22,33
4	10	1000	680	470	330	220	100,150	68	47
5	14	1500	1000	680	470	330	220	100	68
6	17	2200	1500	1000	680	470	330	150	100
7	20		2200	1500	1000	680	470	220	
8	25		3300	2200	1500	1000	680		150
9	30					1200		330	220
10	35			3300	2200	1500	1000	470	330
11	55			4700	3300	2200	1500	680	
12	65				4700	3300	2200	1000	
13	80					4700	3300		



4, How to order

(Part No. **GTCA301-107M0162B**)

GT	CA301	107	M	016	2	B
Brand Name	Type	Capacitance	Tolerance	DC voltage	Case code	Packing
Green Tech	Series Wet Electrolyte Tantalum Capacitor	107: 10×10^7 (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%	6.3V=006 10V=010 16V=016 25V=025 40V=040 50V=050 63V=063 75V=075 100V=100 125V=125	See table 1	B=Bulk

Notes:

- 1、Tantalum capacitors can't be measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2、Capacitance, DF measure frequency: 100Hz, $U=2.2_{-1.0}^0 V$, $U_{-}=1.0_{-0.5}^0 V$ (effective value)
- 3、Measure leakage current above 85°C, please use derated voltage.
- 4、Special size and big capacitance products, please negotiate with us