



# Datasheet

## CA (Axial Leads)

❖ **Brief Introduction:**

CA Series metal-cased solid tantalum electrolytic capacitors

Polarized, **Hermetically sealed.**

Axial leads are characterized in small size, wide operating temperature range, stable performances, high reliability and long life,

CA Series meets the requirements of Chinese National Standard GB8583-88,

Widely used in instruments meters and other electronic equipment for military and civil applications.



❖ **General Characteristics**

Temperature Range: -55°C~+125°C(>85°C use rated voltage derating).

Capacitance Tolerance: M=±20%,K=±10%

DC Leakage (20°C):  $I_0 \leq 0.01 C_R U_R$  or 0.5µA (whichever is greater)

Dissipation factor (20°C): See table 1

Temperature Characteristics: See table 1

Table 1

Capacitance (µF)	Cap. Change ΔC/C (%)			MAX.					
				DF(%)Max.				DCL Max.	
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+85°C	+125°C
≤1	±8	±8	±10	3	3	3	3	8 I <sub>0</sub>	10 I <sub>0</sub>
1.5~68				5	5	5	5		
100~330				6	6	6	6		
470~1000				8	8	8	8		

Note: (1) Measured at a voltage derating.

❖ **Drawing ,Dimensions and Max Weight**

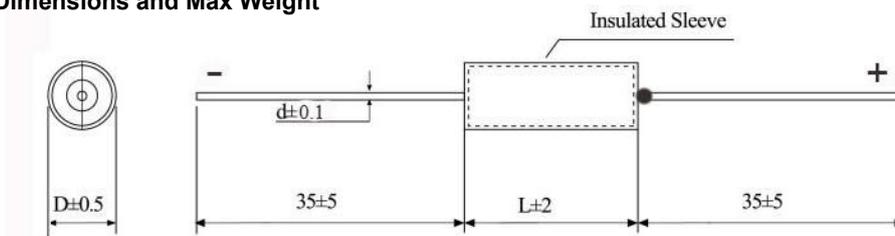


Table 2

Case code	Weight Max. (g)	Uninsulated sleeve		With insulated sleeve		d±0.1 (mm)
		D±0.5 (mm)	L±2 (mm)	D±0.5 (mm)	L±2 (mm)	
1	0.7	3.2	8	4	10	0.4
2	2.3	5	12	5.8	14	0.6
3	3.0	6	14	6.8	16	0.6
4	4.0	8	14	8.8	16	0.8
5	8.0	8	22	8.8	24	0.8
6	14.0	10	22	10.8	24	0.8

Note: When encapsulated with plastic insulation sleeve, dimension D increase 0.8mm and L increase 2mm.



❖ **Nominal Capacitance, Rated voltage, Voltage Derating** Table 3

Rated voltage $U_R$ (V)	6.3	10	16	25	32	40	63	75	100
Voltage derating $U_C$ (V)	4	6.3	10	16	20	25	40	50	63
Code	Capacitance ( $\mu$ F)								
1	1.0	0.68	0.33	0.33	0.22	0.22	0.22	0.22	0.047
	1.5	1.0	0.47	0.47	0.33	0.33	0.33	0.33	0.068
	2.2	1.5	0.68	0.68	0.47	0.47	0.47		0.1
	3.3	2.2	1.0	1.0	0.68	0.68			0.15
	4.7	3.3	1.5	1.5	1.0	1.0			0.22
	6.8	4.7	2.2	2.2	1.5				0.33
	10	6.8	3.3						
2	15	10	4.7	3.3	2.2	1.5	0.68	0.47	
	22	15	6.8	4.7	3.3	2.2	1.0	0.68	0.47
	33	22	10	6.8	4.7	3.3	1.5	1.0	0.68
	47	33	15	10	6.8	4.7	2.2	1.5	1.0
	68	47	22	15	10	6.8	3.3	2.2	1.5
			33		15				
3	100	68	47	22	15	10	4.7	3.3	2.2
		100	68	33		15		4.7	3.3
4	150	150	100	47	22	22	6.8		
	220			68	33	33	10		
5	330	220	150	100	47	47	15		
	470	330	220		68		22		
6	680	470	330	150	100	68	33		
	1000	680	470	220	150	100	47		

❖ **How to order**

(Part No.: GTCA 105 K 0161)

GT	CA	105	K	016	1
Brand Name	Type	Capacitance	Tolerance	DC voltage	Case code
Green Tech	Solid Electrolyte Tantalum Capacitor	105 10X10 <sup>5</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%	Rated voltage 6.3V=006 10V=010 16V=016 25V=025 32V=032 40V=040 63V=063 75V=075 100V=100	See table 2