

# AXIAL SOLID TANTALUM CAPACITOR

# CA

Products Name: CA Axial Leads Solid Electrolytic Tantalum Capacitor  
 Model: CA  
 Value: 1 $\mu$ F~1000 $\mu$ F  
 Voltage: 6.3V~100V  
 Size(mm):

## 1, Brief Introduction:

CA Series metal-cased solid tantalum electrolytic capacitors with polar 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.

## 2, General Characteristics

Temperature Range: -55 $^{\circ}$ C ~ +125 $^{\circ}$ C (>85 $^{\circ}$ C with rated voltage derating).  
 Capacitance Tolerance:  $\pm 20\%$ ,  $\pm 10\%$   
 DC Leakage (20 $^{\circ}$ C):  $10 \leq 0.01C_{UR}$  or 0.5  $\mu$  A (whichever is greater)  
 Dissipation factor (20 $^{\circ}$ C): see table 1  
 Temperature Characteristics: See table 1



## 3, Drawing, Dimensions and Max Weight

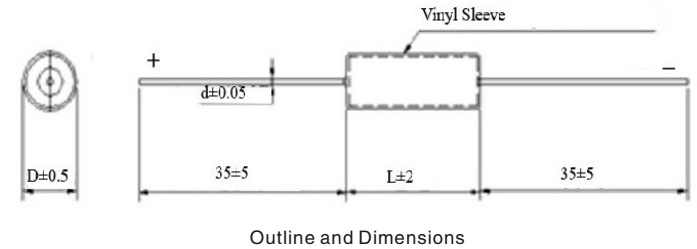
Table 1

Capacitance ( $\mu$ F)	Cap. Change $\Delta C/C(\%)$			MAX.					
	-55 $^{\circ}$ C	+85 $^{\circ}$ C	+125 $^{\circ}$ C	DF(%)Max			DCL Max.		
				-55 $^{\circ}$ C	+20 $^{\circ}$ C	+85 $^{\circ}$ C	+125 $^{\circ}$ C	+85 $^{\circ}$ C	+125 $^{\circ}$ C
$\leq 1$				3	3		3		
1.5 ~ 68	$\pm 8$	$\pm 8$	$\pm 10$	5	5		5	810	1010 (1)
100 ~ 330				6	6		6		
470 ~ 1000				8	8		8		

Note: (1) Measured at a voltage derating.

Case code	Weight Max(g)	D $\pm 0.5$ (mm)	L $\pm 2$ (mm)	d $\pm 0.1$ (mm)
1	0.7	3.2	8	0.4
2	2.3	5	12	0.6
3	3.0	6	14	0.6
4	4.0	8	14	0.8
5	8.0	8	22	0.8
6	14.0	10	22	0.8

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



## 4, Nominal Capacitance, Rated voltage, Voltage Derating

Rated voltage	6.3	10	16	25	32	40	63	75	100
Voltage Derating	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
2	10	6.8	3.3						
	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
3	68	47	22	15	10	6.8	3.3	2.2	1.5
	100	68	33	22	15	10	6.8	4.7	
	150	100	47	33	22	15	10	6.8	4.7
4	220	150	100	68	47	33	22	15	10
	330	220	150	100	68	47	33	22	15
5	470	330	220	150	100	68	47	33	22
	680	470	330	220	150	100	68	47	33
6	1000	680	470	330	220	150	100	68	47

## 5, How to order (CA 105 M 016)

CA	105	M	016
Type	Capacitance	Tolerance	DC voltage
Solid Electrolyte Tantalum Capacitor	105 10X10 <sup>0</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= $\pm 10\%$ M= $\pm 20\%$	Rated voltage 6.3V=006 10V=010 16V=016 25V=025 32V=032 40V=040 63V=063 75V=075 100V=100