

## CA42 Series Dipped Tantalum Capacitors (Radial Tantalum Capacitor)

### ◆ Brief Introduction

Epoxy-coated, flame-retardant, radial leads tantalum capacitors

Small size, excellent electrical performances, long life

Applying to TV sets, Telephones, Instruments, Meters, Computers, Camcorder, Telecommunication.

Operating Standard: GB7215-87

Factory quality control system: Military Standard GJB9001C-2017

Meets RoHS , Reach requirement

### ◆ Marking on Capacitor Body



### ◆ Specifications

Operating Temperature Range:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ;  $>85^{\circ}\text{C}$ (with rated voltage derating);

DC Leakage at  $25^{\circ}\text{C}$ :  $I_{\text{L}} \leq 0.02C_{\text{R}}U_{\text{R}}$  or  $1\mu\text{A}$  (whichever is greater)

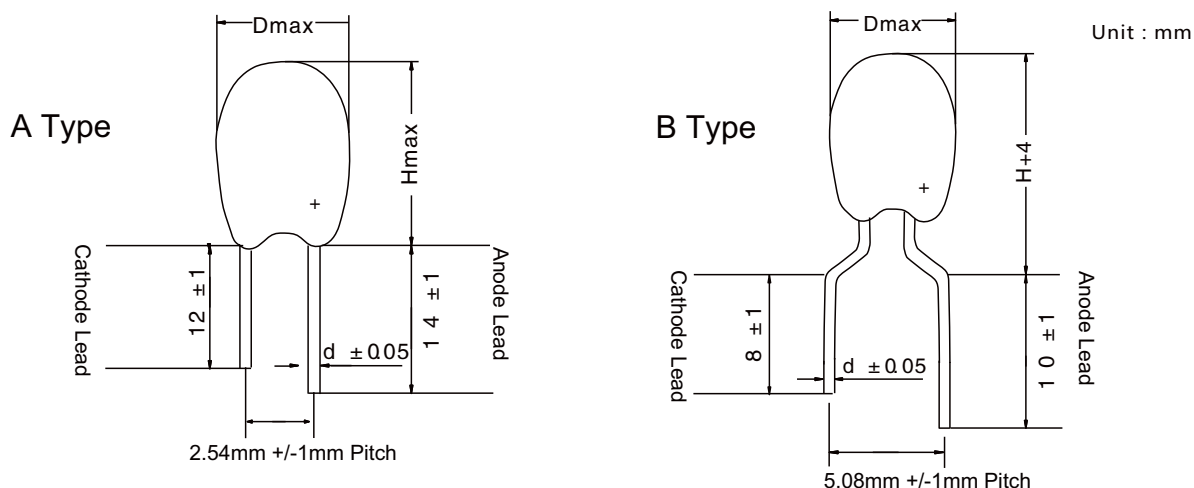
Capacitance Range:  $0.68\mu\text{F} \sim 1000\mu\text{F}$

Voltage Range: 6.3V, 10V, 16V, 25V, 35V, 50V

Capacitance Tolerance: K:  $\pm 10\%$ ; M:  $\pm 20\%$  ( $\pm 20\%$  tolerance is standard)

Package Type: Bulk Package, Ammo Taped in Box

### ◆ Drawing of CA42 Series



### ◆ How to order

CA42	T	106	M	0025	0025	B	000
Type	Material Code	Capacitance Code	Tolerance	For DC Voltage	Size Code	Package Code	Suffix Indicate Special Requirement
CA42	T: Tantalum Cap For CA42,	pF Code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) 106 = 10uF 105 = 1uF	K: $\pm 10\%$ M: $\pm 20\%$	0006: 6.3VDC 0010: 10VDC 0035: 35VDC 0050: 50VDC	Pitch Size of CA42 0025: pitch size 2.54mm 0050: pitch size 5.08mm	B: Bulk A: Ammo Taped	000: Indicating Standard

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◆ Table 1: Electrical Characteristics, Dimensions, Package

Rated Voltage (V)				6.3V	10V	16V	25V	35V	50V	
Voltage Derating (V), if >85°C				4V	6.3V	10V	16V	20V	32V	
Surge Voltage (V) +85°C				8V	13V	20V	32V	46V	65V	
Dimensions (mm)			SPQ for Bulk Qty. in Bag	SPQ for Ammo Qty. in Box	Nominal Capacitance (uF)					
D <sub>max</sub> x H <sub>max</sub>	d+/-0.05mm	S (Pitch)								
4.4x6.5 (A Case)	0.5	2.54 5.08	1000pcs	2000pcs	10	6.8	1	1		
					15	10	2.2	2.2		
					22	15	3.3	3.3		
							4.7			
							6.8		0.68	
							10		1	
5x7.5 (B Case)	0.5	2.54 5.08	1000pcs	2000pcs for 2.54 1000pcs for 5.08	33	22	15	4.7	2.2	0.68
					47		22	6.8	3.3	1
								10		
5.5x9 (C Case)	0.5	2.54 5.08	500pcs	1000pcs	68	33	33	15	4.7	1.5
					100	47	47	22	6.8	2.2
						68			10	3.3
						100				
6.3x10.5 (D Case)	0.5	2.54 5.08	500pcs	1000pcs	150	150	68	33	15	4.7
					220		100	47	22	6.8
7.2x12 (E Case)	0.5	5.08	500pcs	N/A	330	220	150	68	33	10
					470	330	220	100	47	15
										22
8.5x13 (V Case)	0.5	5.08	100pcs	N/A	680	470	330	150	68	33
					820	680	470			

Remark: Above listed are standard offer; any special requirement please consult to our sales.

◆ Table 2: Temperature Characteristics

Nominal Capacitance C <sub>R</sub> (μF)	MAX DF(%)				MAX DCL ( μA )	
	-55°C	25°C	85°C	125°C	85°C	125°C
0.68-1.0	6	4	6		8 I <sub>0</sub>	10 I <sub>0</sub>
1.5~6.8	8	6	8			
10~68	10	8	10			
100~330	12	10	12			
470~680	14	12	14			
> 680	16	14	16			

### Important Note

1. Please do not use multimeter to test tantalum capacitors.
2. Capacitance and DF measured at :100Hz , U<sub>-</sub> = 2.2<sup>-1.0</sup>V , U<sub>~</sub> = 1.0<sup>-0.5</sup>V, Frequency = 100Hz. Test only applied to series equivalent circuit.
3. Please refer to derating voltage or category voltage if temperature > 85°C
4. The DCL parameter should be read after 5 minutes when it connected to the circuit.
5. For special requirement please consult to our sales.