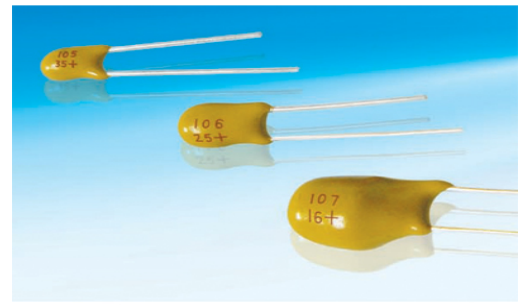


1. Scope :

This specification applies to CA42 series dipped tantalum Capacitors produced by Shenzhen Be-Top Electronic Components Co., Ltd.



2. Standard :

Detail specification for electronic components type CA42 fixed tantalum capacitors with solid electrolyte Assessment level E GB7215-87.

3. Standard Testing Conditions :

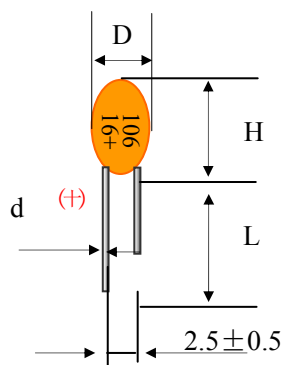
Tests should be done at temperature 15-35°C, humidity of 45-75%RH, and pressure of 860-1060mbar .But in the case of a discrepancy ,the final decision should be made by the testing at temp of 25°C , humidity of 60-70%RH ,and pressure of 860-1060mbar.

4. Performance Characteristics :

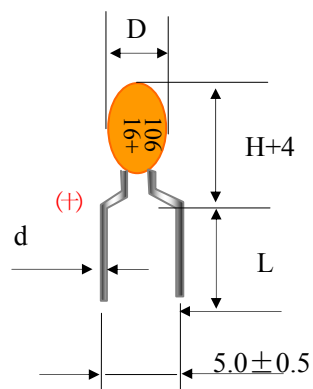
Checking Item	Performance Characteristics	Testing Method
Marking Model	See page 3	Vernier Caliper 150×0.01mm
Appearance	Correct Marking , clear, No pinhole, No burr, No damage.	Visual examination
DC Leakage Current	$I_0 \leq 0.02 C_R V_{RH}$ or $1 \mu A$ $I_0 \leq 0.02 C_R V_{RH}$ or $0.5 \mu A$ (Special order) (Whichever is greater)	DC leakage current is the current that, after a five minutes charging period , flows through a capacitor when voltage is measured at 25°C with rated DC voltage applied to the capacitor through a 1000 ohm resistor in series with the capacitor.
Capacitance Tolerance	K($\pm 10\%$); M($\pm 20\%$)	Testing frequency: 100Hz Testing voltage: $0.3 \pm 0.02V$
Dissipation Factor	$CAP \leq 1 \mu f$ $tg\delta \leq 4\%$. $1.5-6.8 \mu f$ $tg\delta \leq 6\%$ $10-68 \mu f$ $tg\delta \leq 8\%$ $CAP \geq 100 \mu f$ $tg\delta \leq 10\%$	Testing frequency: 100Hz Testing voltage: $0.3 \pm 0.02V$
Solderability	The dipped portion of the termination is at least 95% covered by a new solder coating.	Solder temperature: $245 \pm 3^\circ C$ Immersion times: $3 \pm 0.5s$

Characteristics at High and Low Temperature	Capacitance (μF)	$\Delta C/C$ (%)			$\text{tg}\delta$ (%) (max)				I_0 (μA) (max)	
		-55 °C	+85 °C	+125 °C	-55 °C	+25 °C	+85 °C	+125 °C	+85 °C	+125 °C
	≤ 1.0	± 10	± 15	± 25	6	4	6	6	$10I_0$	$12.5I_0$
	1.5-6.8				8	6	8	8		
	10-68				10	8	10	10		
	≥ 100				12	10	12	12		

MARKING AND MODEL



A Type



B Type

Dimension: mm

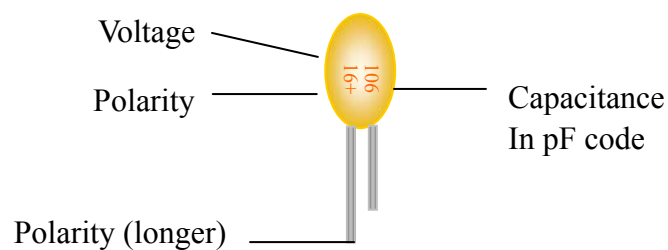
Case Code	Dmax	Hmax	L(± 1)	d(± 0.05)
A	4.7	7.0	14	0.50
B	5.0	7.5	14	0.50
C	5.5	9.0	14	0.50
D	6.0	10.0	14	0.50
E	7.2	12.0	14	0.50
F	8.5	12.5	14	0.50
G	9.5	16.0	14	0.50

5. Rating and Case Code

Capacitance(μF)	Capacitance Code	Rated Voltage (V)						
		4	6.3	10	16	25	35	50
0.1	104						A	A
0.15	154						A	A
0.22	224						A	A
0.33	334						A	A
0.47	474						A	A
0.68	684						A	A
1.0	105				A	A	A	B
1.5	155				A	A	A	C
2.2	225			A	A	A	B	C
3.3	335			A	A	B	B	D
4.7	475	A	A	A	B	B	C	D
6.8	685	A	A	B	B	C	D	E
10	106	A	A	B	C	C	D	F
15	156	A	B	C	C	D	E	G
22	226	B	C	C	D	D	F	G
33	336	B	C	D	D	E	G	G
47	476	C	D	D	E	F	G	
68	686	D	D	D	E	G		
100	107	D	D	E	F	G		
150	157	E	E	F	F	G		
220	227	F	F	G	G			
330	337	F	G	G				

6. Marking and Packing

MARKING

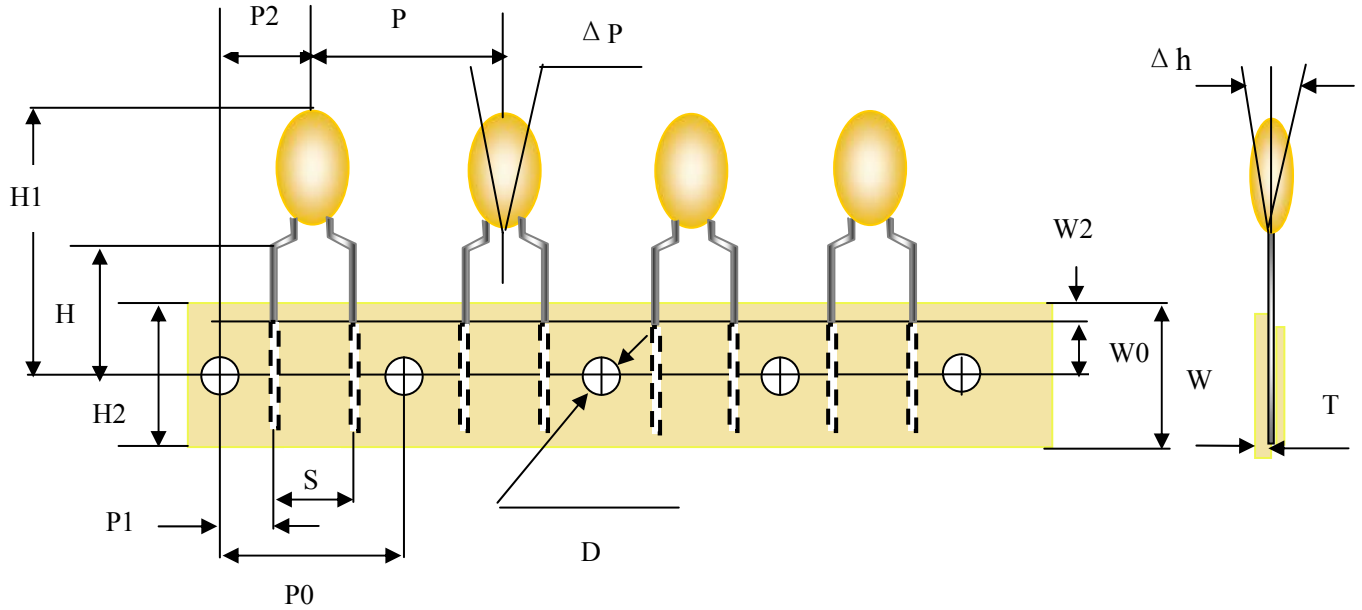


Packaging tape:

B: Bulk

T: Reel
A: Ammo

□ Dimension of tape and reel (Per specification IEC286-2)



Symbol	Dimensions(mm)	Symbol	Dimensions(mm)
P	12.7±1.0	D	4.0±0.2
P0	12.7±0.3	T	0.5±0.2
W	18(+1,-0.5)	Δh	0±2.0
		H	16±0.5
W0	5min	S	2.5±0.5 5.0±0.7
H2	9(+0.75,-0.5)	P1	5.10±0.5 3.85±0.7
W2	0(+1,0)	P2	6.35±0.4
H1	32.5max	ΔP	±1.3max

7. How to Order

CA42	106	K	016	A	B
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	RATED VOLTAGE	CASE CODE	PACKAGING
This is expressed in Pico farads. The first two digits are the significant figures. The third is the number of zeros to follow.		M=±20% K=±10% J=±5%	4V=004 6.3V=006 10V=010 16V=016 25V=025 35V=035 50V=050	A: 2.54mm pitch B: 5.08mm pitch	B: Bulk Packing T: Reel Tape Packing A: Ammo Tape Packing