ITEM	CA42 DIPPED TANTALUM CAPACITORS

1.Scope:

This specification applies to CA42 DIPPED TANTALUM CAPACITORS produced by our factory for use in electronic equipments.

2.Standard:

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

3.Standand Testing Conditions:

Tests should be done at temperature 15-35℃, 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℃, 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	$I_0 \leq 0.02 C_R V_R h$ or 1μA $I_0 \leq 0.02 C_R V_R h$ or 0.5μA (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℃ with rated DC voltage applied to the capacitor through a 1000 ohm resistor in series with the capacitor.
Capacitance tolerance	K(±10%); M(±20%)	Testing frequency: 100Hz Testing voltage:0.3±0.02V
Dissipation factor	CAP≤1μf tgδ≤ 4%. 1.5-6.8μf tgδ≤ 6% 10-68μf tgδ≤ 8% CAP≥100μf tgδ≤ 10%	Testing frequency: 100Hz Testing voltage:0.3±0.02V

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Checking Item	Performance Characteristics	Testing method
Solderability	The dipped portion of the termination is at least 95% covered by a new solder coating.	Solder temperature:235±5℃ Immersion times:2±0.5s

Characteristics at high and low temperature

Capacitance (μF)	△C/C（%）			tgδ（%）(max)				I_0（μA）(max)	
	-55℃	+85℃	+125℃	-55℃	+25℃	+85℃	+125℃	+85℃	+125℃
≤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		

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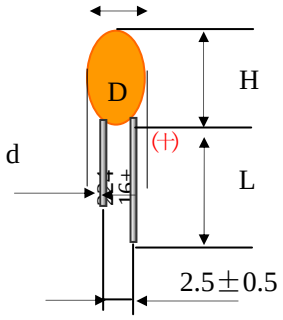
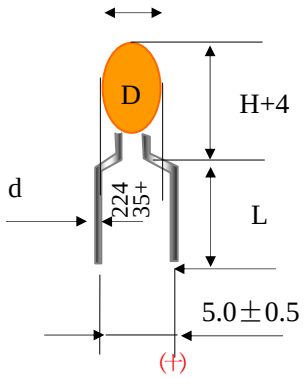
MARKING AND MODEL



A model



B model

RATING AND CASE CODE

Capacitance（μF）C_R	CODE	Rated Voltage U_R （Category Voltage U_C ）						
		4 (2.5)	6.3 （4）	10 (6.3)	16 （10）	25 (16)	35 （20）	50 （32）
0.1	104						A	A
0.15	154						A	A

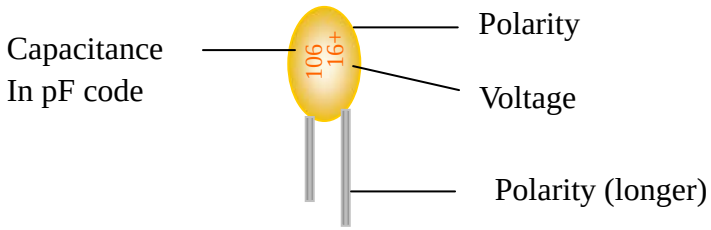
0.22	224						A	A
0.33	334						A	A
0.47	474						A	A
0.68	684						A	A
1.0	105				A	A	A	B
1.5	155				A	A	A	C
2.2	225			A	A	A	B	C
3.3	335		A	A	A	B	B	D
4.7	475	A	A	A	B	B	C	D
6.8	685	A	A	B	B	C	D	E
10	106	A	B	B	B	C	D	E
15	156	A	B	C	C	D	E	F
22	226	B	C	C	C	D	E	F
33	336	B	C	D	D	E	F	
47	476	C	D	D	D	E	F	
68	686	D	D	D	E	F		
100	107	D	E	E	E	F		
150	157	E	E	E	F			
220	227	E	E	F				
330	337	F	F					

Mimension UNIT: mm

Case Size	Dmax	Hmax	L(±1)	d(±0.05)
A	4.0	6.0	14	0.50
B	4.8	7.2	14	0.50
C	5.5	8.0	14	0.50
D	6.0	9.4	14	0.50
E	7.2	11.5	14	0.50
F	8.2	12.5	14	0.50

MARKING AND PACKAGING

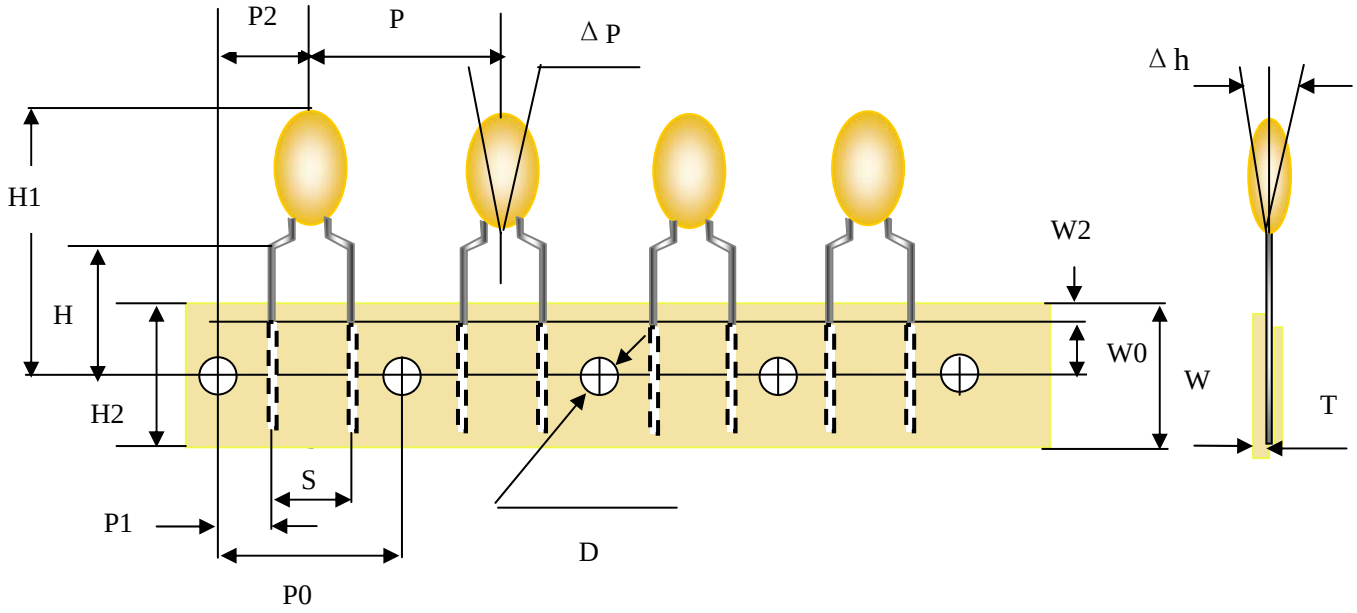
MARKING



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	