

CA42 Dipped Tantalum Capacitors.

Features

Small units with high stable performance, lower current leakage and dissipation factor, stable frequency and temperature and long life. suitable for military equipment and computer ,telephone and other electronic products. Meets IEC384-15-3 and GB7215-87 standard.

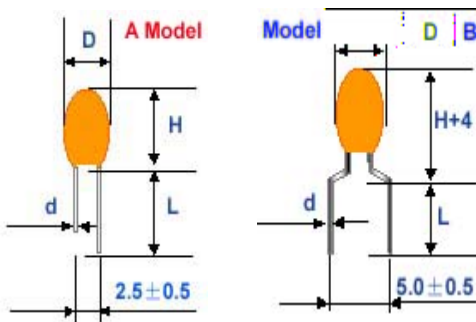
General Characteristics

- Operating temperature : -55°C ~125°C
- Capacitance Tolerance : ±20% ,±10%,±5% (Special Order).
- Capacitance Range :0.1μF~330 μF
- DC leakage current(20°C) $I_o < =0.01C_R U_R$ or 0.5μA (whichever is greater).
- Dissipation factor (20°C) See table 1
- Temperature performance: see table 1.
- Climatic category: 55/125/10.
- Life test: 1000 hours

Table 1

Cap.(μ F)	Capacitance Change (%)			Max D.F(%)				Max DCL (μ A)	
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+85°C	+125°C
≤1.0	-10	-15	-25	6	4	6	6	10 I _o	12.5 I _o
1.5~6.8				8	6	8	8		
10~68				10	8	10	10		
100~330				12	10	12	12		

Exterior Dimensions

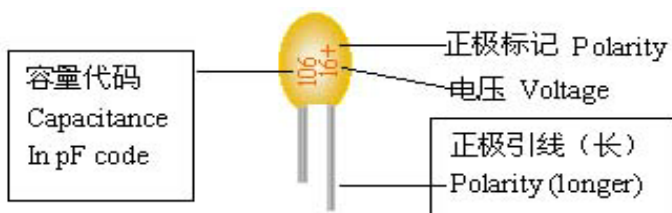


DIMENSIONS IN MM

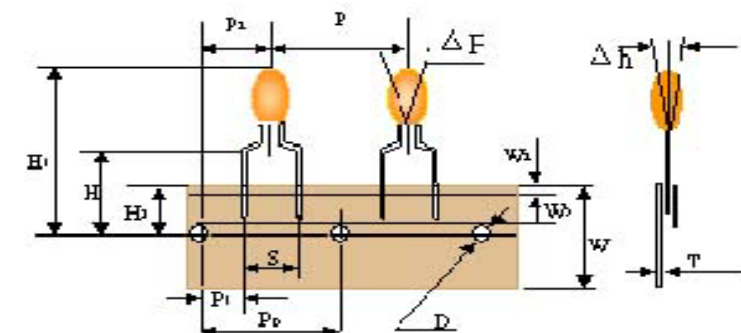
Case Size	D (MAX)	H (MAX)	L (-1)	d (-0.05)
A	4.0	6.0	14.0	0.5
B	4.8	7.2	14.0	0.5
C	5.5	8.0	14.0	0.5
D	6.0	9.4	14.0	0.5
E	7.2	11.5	14.0	0.5
F	8.2	12.5	14.0	0.5

Marking&Packaging

Packaging Tape B: Bulk T: Reel A: Ammo



Symbol	Dimensions (mm)		Symbol	Dimensions (mm)	
P	12.7-1.0		D	4.0-0.3	
P ₀	12.7-0.3		T	0.5-0.2	
W	18	1	Δ h	0-2.0	
		-0.5		H	16-0.5
W ₀	5min		S	2.5-0.5	5.0-0.7
H ₂	9	0.75	P ₁	5.10-	3.85-
		-0.5		0.5	0.7
W ₂	0	1	P ₂	6.35-0.4	
		0			
H ₁	32.5max		Δ P	-1.3max	



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

CA42 Dipped Tantalum Capacitors.

Capacitance range, Case size (Letters stand for case sizes)

Cap. (μ F)	Code	Rated voltage (V)						
		4	6.3	10	16	25(20)	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	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					

How To Order (CA42 105 K 035 A A)

CA42	105	K	035	A	A
Type	Capacitance	Tolerance	DC voltage	Leads pitch	Packaging
Dipped Tantalum Capacitors	105: 10×10^5 (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% J=−5%	4V=004 6.3V=006 10V=010 16V=016 25V=025 35V=035 40V=040 50V=050	A=2.5mm B=5.0mm	T=Tape and reel A=Ammo pack B=bulk pack

CA42 Dipped Tantalum Capacitors.

Standard Rating

Cap. (uF)	Case Code	YHC Part Number Cap.Tol.-10%	MAX.DCL 25°C (uA)	MAX DF 25°C 120HZ (%)
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4 Volt Rating at +85°C (2.5Volt Rating at +125°C)

4.7	A	CA42475M004AA	0.5	6
6.8	A	CA42685M004AA	0.5	6
10	A	CA42106M004AA	0.5	8
15	A	CA42156M004AA	0.6	8
22	B	CA42226M004AA	0.8	8
33	B	CA42336M004AA	1.3	8
47	C	CA42476M004AA	1.8	8
68	D	CA42686M004AA	2.7	8
100	D	CA42107M004AA	4	10
150	E	CA42157M004AA	6	10
220	E	CA42227M004AA	8.8	10
330	F	CA42337M004AA	13.2	10

6.3 Volt Rating at +85°C (4Volt Rating at +125°C)

3.3	A	CA42335M006AA	0.5	6
4.7	A	CA42475M006AA	0.5	6
6.8	A	CA42685M006AA	0.5	6
10	B	CA42106M006AA	0.6	8
15	B	CA42156M006AA	0.9	8
22	C	CA42226M006AA	1.3	8
33	C	CA42336M006AA	2	8
47	D	CA42476M006AA	2.9	8
68	D	CA42686M006AA	4.2	8
100	E	CA42107M006AA	6.3	10
150	E	CA42157M006AA	9.4	10
220	E	CA42227M006AA	13.8	10
330	F	CA42337M006AA	20.7	10

10 Volt Rating at +85°C (6.3Volt Rating at +125°C)

2.2	A	CA42225M010AA	0.5	6
3.3	A	CA42335M010AA	0.5	6
4.7	A	CA42475M010AA	0.5	6
6.8	B	CA42685M010AA	0.6	6
10	B	CA42106M010AA	1	8
15	C	CA42156M010AA	1.5	8
22	C	CA42226M010AA	2.2	8
33	D	CA42336M010AA	3.3	8
47	D	CA42476M010AA	4.7	8
68	D	CA42686M010AA	6.8	8
100	E	CA42107M010AA	10	10
150	E	CA42157M010AA	15	10
220	F	CA42227M010AA	22	10

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Standard Rating

Cap. (uF)	Case Code	YHC Part Number Cap.Tol.-10%	MAX.DCL 25°C (uA)	MAX DF 25°C 120HZ (%)
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16 Volt Rating at +85°C (10Volt Rating at +125°C)

1	A	CA42105M016AA	0.5	4
1.5	A	CA42155M016AA	0.5	6
2.2	A	CA42225M016AA	0.5	6
3.3	A	CA42335M016AA	0.5	6
4.7	B	CA42475M016AA	0.7	6
6.8	B	CA42685M016AA	1	6
10	B	CA42106M016AA	1.6	8
15	C	CA42156M016AA	2.4	8
22	C	CA42226M016AA	3.5	8
33	D	CA42336M016AA	5.2	8
47	D	CA42476M016AA	7.5	8
68	E	CA42686M016AA	10.8	8
100	E	CA42107M016AA	16	10
150	F	CA42157M016AA	24	10

25 Volt Rating at +85°C (16Volt Rating at +125°C)

1	A	CA42105M025AA	0.5	4
1.5	A	CA42155M025AA	0.5	6
2.2	A	CA42225M025AA	0.5	6
3.3	B	CA42335M025AA	0.8	6
4.7	B	CA42475M025AA	1.1	6
6.8	C	CA42685M025AA	1.7	6
10	C	CA42106M025AA	2.5	8
15	D	CA42156M025AA	3.7	8
22	D	CA42226M025AA	5.5	8
33	E	CA42336M025AA	8.2	8
47	E	CA42476M025AA	11.7	8
68	F	CA42686M025AA	17	8
100	F	CA42107M025AA	25	10

35 Volt Rating at +85°C (22Volt Rating at +125°C)

0.1	A	CA42104M035AA	0.5	4
0.15	A	CA42154M035AA	0.5	4
0.22	A	CA42224M035AA	0.5	4
0.33	A	CA42334M035AA	0.5	4
0.47	A	CA42474M035AA	0.5	4
0.68	A	CA42684M035AA	0.5	4
1	A	CA42105M035AA	5	4
1.5	A	CA42155M035AA	0.5	6
2.2	B	CA42225M035AA	0.7	6
3.3	B	CA42335M035AA	1.1	6
4.7	C	CA42475M035AA	1.6	6
6.8	D	CA42685M035AA	2.3	6
10	D	CA42106M035AA	3.5	8
15	E	CA42156M035AA	5.2	8
22	E	CA42226M035AA	7.7	8
33	F	CA42336M035AA	11.5	8
47	F	CA42476M035AA	16.4	8

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Cap. (μ F)	Case Code	YHC Part Number Cap.Tol.-10%	MAX.DCL 25°C (μ A)	MAX DF 25°C 120HZ (%)
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50 Volt Rating at +85°C (35Volt Rating at +125°C)

0.1	A	CA42104M050AA	0.5	4
0.15	A	CA42154M050AA	0.5	4
0.22	A	CA42224M050AA	0.5	4
0.33	A	CA42334M050AA	0.5	4
0.47	A	CA42474M050AA	0.5	4
0.68	A	CA42684M050AA	0.5	4
1	B	CA42105M050AA	0.5	4
1.5	C	CA42155M050AA	0.7	6
2.2	C	CA42225M050AA	1.1	6
3.3	D	CA42335M050AA	1.6	6
4.7	D	CA42475M050AA	2.3	6
6.8	E	CA42685M050AA	3.4	6
10	E	CA42106M050AA	5	8
15	F	CA42156M050AA	7.5	8
22	F	CA42226M050AA	11	8
