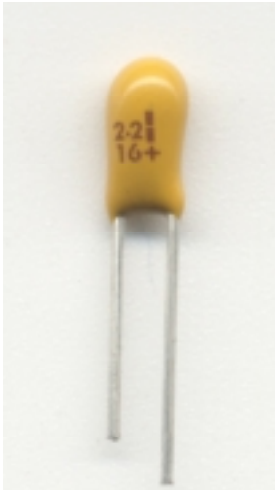


CA42 Dipped Tantalum Capacitors.



TYPE CA42 Solid Tantalum Capacitors Solid-Electrolyte TANTALUM Capacitors Resin-Coated, Radial-Lead

Economy and high performance are combined in the Type CA42 resin-coated, radial-lead, solid-electrolyte Tantalum capacitor. These are rugged, reliable capacitors featuring low leakage current and low dissipation factor.

Type CA42 capacitors are available in six miniature case sizes and two lead styles suitable for a broad range of consumer, commercial and industrial equipment. All case sizes are available in standard tape and reel packaging per EIA-RS-468.

This series features a capacitance range from 0.1 to 470 microfarads at voltages from 3 to 50 VDC.

Meets GB7215-87 Standard .

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55°C to + 85°C. (To + 125°C with voltage derating.)

Capacitance Tolerance: At 100 Hz, + 25°C. ± 20%, ± 10% standard. ± 5%, special order.

Dissipation Factor: At 100 Hz, + 25°C. Dissipation factor, as determined from the expression $2 \pi fRC$, shall not exceed the values listed in the Standard Ratings Tables

Life Test: Capacitors shall withstand rated DC voltage applied at + 85°C for 1000 hours with a circuit resistance no greater than 3 ohms. Following the life test:

1. DCL shall not exceed 125% of the initial requirement.
2. Dissipation Factor shall meet the initial requirement.
3. Change in capacitance shall not exceed ± 10%

DC Leakage Current (DCL Max.):

Leakage current shall not exceed the values listed in the Standard Ratings Tables.

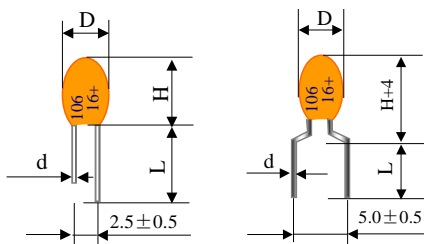
TEMPERATURE PERFORMANCE

Capacitance (uF)	Capacitance change(%)			Max D.F(%)				Max DCL (uA)	
	-55 °C	+85 °C	+125 °C	-55 °C	+25 °C	+85 °C	+125 °C	+85 °C	+125 °C
1.0	±	±	±	6	4	6	6	10I ₀	125I ₀
1.5-6.8				8	6	8	8		
10-68				10	8	10	10		
100-330				12	10	12	12		

DIMENSIONAL CONFIGURATIONS AND MARKING (UNIT:MM)

A STYLE

B STYLE



CASE SIZE	D (MAX)	H (MAX)	L (±2)	d (±0.05)
A	4.0	6.0	14	0.5
B	4.8	7.2	14	0.5
C	5.5	8.0	14	0.5
D	6.0	9.4	14	0.5
E	7.2	11.5	14	0.5
F	8.2	12.5	14	0.5

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STANDARD RATINGS				
CAPACITANCE (μ F)	CASE CODE	PARE NUMBER CAP.TOL ($\pm 20\%$)	MAX. DCL(μ A) @+20°C	MAX. DF (%) @+20°C 120HZ
6.3 Volt Rating @ +85°C SURGE=8V 4 Volt Rating @ +125°C SURGE=5V				
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	F	CA42227M006AA	13.8	10
330	F	CA42337M006AA	20.7	10
470	F	CA42477M006AA	30	10
10 Volt Rating @ +85°C SURGE=13V 7 Volt Rating @ +125°C SURGE=9V				
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	CA42110M010AA	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
330	F	CA42337M010AA	33	10
470	F	CA42477M010AA	47	10
16 Volt Rating @ +85°C SURGE=20V 10 Volt Rating @ +125°C SURGE=12V				
1	A	CA42155M016AA	0.5	6

CA42 Dipped Tantalum Capacitors.

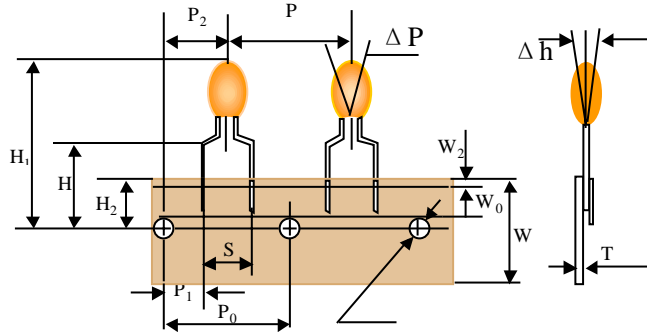
STANDARD RATINGS				
CAPACITANCE (μ F)	CASE CODE	PARE NUMBER CAP.TOL ($\pm 20\%$)	MAX. DCL(μ A) @+20°C	MAX. DF (%) @+20°C 120HZ
16 Volt Rating @ +85°C SURGE=20V 10 Volt Rating @ +125°C SURGE=12V				
1.5	A	CA42155M016AA	0.5	6
2.2	A	CA42225M016AA	0.5	6
3.3	A	CA42335M016AA	0.5	6
4.7	B	CA42475M016AA	0.7	6
6.8	B	CA42685M016AA	1	6
10	B	CA42115M016AA	1.6	8
15	C	CA42156M016AA	2.4	8
22	C	CA42226M016AA	3.5	8
33	D	CA42336M016AA	5.3	8
47	D	CA42476M016AA	7.5	8
68	E	CA42686M016AA	10.9	8
100	E	CA42107M016AA	16	10
150	F	CA42157M016AA	24	10
220	F	CA42227M016AA	35	10
25 Volt Rating @ +85°C SURGE=33V 17 Volt Rating @ +125°C SURGE=21V				
0.47	A	CA42474M025AA	0.5	4
0.68	A	CA42684M025AA	0.5	4
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	1.2	6
6.8	C	CA42685M025AA	1.7	6
10	C	CA42106M025AA	2.5	8
15	D	CA42156M025AA	3.8	8
22	D	CA42226M025AA	5.5	8
33	E	CA42336M025AA	8.2	8
47	E	CA42476M025AA	12	8
68	F	CA42686M025AA	17	8
100	F	CA42107M025AA	25	10
35 Volt Rating @ +85°C SURGE=46V 23 Volt Rating @ +125°C SURGE=28V				
0.10	A	CA42104M035AA		4

CA42 Dipped Tantalum Capacitors.

STANDARD RATINGS				
CAPACITANCE (μ F)	CASE CODE	PARE NUMBER CAP.TOL (\pm 20%)	MAX. DCL(μ A) @+20°C	MAX. DF (%) @+20°C 120HZ
35 Volt Rating @ +85°C SURGE=46V 23 Volt Rating @ +125°C SURGE=28V				
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
1.0	A	CA42105M035AA	0.5	4
1.5	A	CA42155M035AA	0.5	6
2.2	B	CA42225M035AA	0.7	6
3.3	B	CA42335M035AA	11	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	12	8
47	F	CA42476M035AA	17	8
50 Volt Rating @ +85°C SURGE=65V 33 Volt Rating @ +125°C SURGE=40V				
0.10	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
1.0	B	CA42105M050AA	0.5	4
1.5	C	CA42155M050AA	0.8	6
2.2	C	CA42225M050AA	1.1	6
3.3	D	CA42335M050AA	1.7	6
4.7	D	CA42475M050AA	2.4	6
6.8	E	CA42685M050AA	3.4	6
10	E	CA42106M050AA	5	8
15	F	CA42156M050AA	8	8
22	F	CA42226M050AA	11	8

CA42 Dipped Tantalum Capacitors.

STANDARD REEL PACKAGING SPECIFICATION PER IEC286-2



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 -0.5	Δ h	0±2.0	
		H	16±0.5	
W ₀	5min	S	2.5±0.5	5.0±0.7
H ₂	9 ^{+0.75} -0.5	P ₁	5.10±0.5	3.85±0.7
		P ₂	6.35±0.4	
W ₂	0 ⁺¹ 0	H ₂	18 ⁺² 0	
H ₁	32.5max	Δ P	±1.3max	

HOW TO ORDER

CA42

106

M

035

2.5

B

TAPE

Capacitance

Tolerance

DC voltage

Leads pitch

Packaging

105 10X10⁵(pF)

This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.

M=±20%

K=±10%

J=±5%

Rated Voltage

4V=004

6.3V=006

10V=010

16V=016

25V=025

35V=035

50V=050

T=Tape and reel

A=Ammo pack

B=bulk pack