

## CA45 Chip Tantalum Capacitors



### Features

Solid tantalum chip capacitors designed and manufactured with the demanding requirements of surface mount technology in mind. There are A, B, C, D, E, S six case codes. They have lower ESR Compared with the dipped tantalum capacitors .The product compatible with automatic pick and place equipment. Suitable for military equipment and computer ,ceil telephone and other electronic products. Meets the requirements of EIA 535BAAC and QC300801 , Q/YHC.45-01 standard.

### General Characteristics

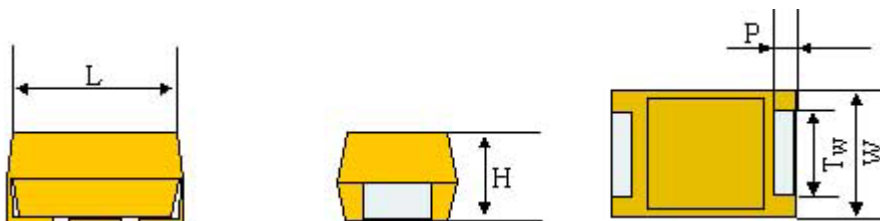
- Operating temperature: -55 ~ +125 (above 85 ,use dreeded voltage).
- Capacitance Tolerance:  $\pm 20\%$  ,  $\pm 10\%$  .
- Capacitance Range: 0.1 $\mu$ F~330 $\mu$ F.
- Voltage Rating : 4V~50V .
- DC leakage current(20): $I_0 \leq 0.01CRUR$  or 0.5 $\mu$ A (whichever is greater )
- Dissipation factor (20 ) : see table 1.
- Temperature performance: see table 1.
- Climatic category: 55/125/21.
- Life test: 2000 hours.
- Reliability:2% per 1000h at 85 with 0.1 $\Omega$ /V series impedance 60% confidence level

Table 1

Cap. ( $\mu$ F)	Capacitance Change ( % )			Max D.F (%)				Max DCL ( $\mu$ A )	
	-55	+85	+125	-55	+20	+85	+125	+85	+125
$\leq 1.0$	-10	+10	+12	6	4	6	6	10 $I_0$	12.5 $I_0$
1.5-68	-10	+10	+12	10	6	10	10	10 $I_0$	12.5 $I_0$
$\geq 100$	-10	+10	+12	12	8	12	12	10 $I_0$	12.5 $I_0$

### Drawing And Dimension

#### Exterior Dimensions >>>



CASE	EIA / IECQ	L	W	H	P	T <sub>w</sub>
A	3216	3.2±0.2	1.6±0.2	1.6±0.2	0.8±0.3	1.2±0.1
B	3528	3.5±0.2	2.8±0.2	1.9±0.2	0.8±0.3	2.2±0.1
C	6032	6.0±0.3	3.2±0.3	2.5±0.3	1.3±0.3	2.2±0.1
D	7343	7.3±0.3	4.3±0.3	2.8±0.3	1.3±0.3	2.4±0.1
E	7343	7.3±0.3	4.3±0.3	4.0±0.3	1.3±0.3	2.4±0.3
S	2012	2.0±0.2	1.2±0.2	1.2±0.2	0.5±0.3	1.2±0.1

## Rating and Case Code

C (μF) DC (V)	0.1 ~ 0.33	0.47	0.68	1.0	1.5	2.2	3.3	4.7	6.8	10	15
4					S	S	A/S	A/S	A/S	B/A	B/A
6.3				A/S	A/S	A/S	A/S	A/S	B/A	B/A	B/A
10			S	A/S	A/S	A/S	A/S	B/A	B/A	B/A	C/B/A
16		S	A/S	A/S	B/A	B/A	B/A	B/A	C/B/A	C/B/A	C/B
20	S	A/S	A/S	A	B/A	B/A	C/B/A	D/C/B	D/C/B	D/C/B	D/C
25	A	A	A	B/A	B/A	B/A	C/B	C/B	D/C/B	D/C/B	D/C
35	A	B/A	B/A	B/A	C/B	C/B	C	D/C	D/C	D/C	E/D
50	A	B/C	B/C	B/C	C	C	D	D	E/D		

C (μF) DC (V)	22	33	47	68	100	150	220	330	470
4	A/B	C/B/A	D/C/B	D/C/B	D/C/B	D/C	D/C	D	E/D
6.3	B/A	C/B	C/B	D/C/B	D/C	D/C	E/D/C	E/D	
10	C/B	D/C/B	D/C/B	D/C	D/C	E/D/C	E/D	E	
16	D/C/B	D/C	D/C	D/C	D	E	E		
20	D/C	D/C	E/D/C	E/D	E				
25	D/C	E/D	E/D	E					
35	E/D								
50									

## How to order

(CA42 106 M 035 A T)

CA45	106	M	035	D	T
Type	Capacitance	Tolerance	DC voltage	Case Size	Packaging
CA45 stand for Chip Tantalum Capacitors	105 10X10 <sup>5</sup> (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%	Rated voltage 4V=004 6.3V=006 10V=010 16V=016 25V=025 35V=035 50V=050	A:3.2*1.6 B:3.5*2.8 C:6.0*3.2 D:7.3*4.3 E:7.3*4.3 S:2.0*1.2	T= Tape and reel B=bulk pack