

## Chip Tantalum Capacitor - SMD

Solid Electrolyte, High Volumetric  
Efficiently, Stable Electric Performances



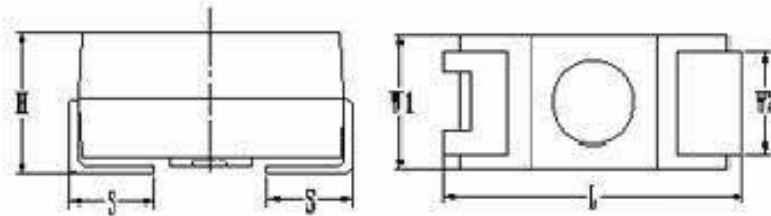
### Description:

SMD tantalum chip capacitors designed and manufactured with the demanding requirements of surface mount technology in mind. There are A, B, C, D four case codes. They have lower ESR compared with the dipped tantalum capacitors.

### Applications:

- ◆ Cell telephones
- ◆ Computers
- ◆ Military equipment
- ◆ Other electronic products
- ◆ Pick & Automatic equipment

### Outline Drawings:



### Specifications:

- ◆ Capacitance Tolerance: K:(±10%) : M(±20°C, 120HZ/100HZ)
- ◆ Leakage Current:  $I_o < 0.01CRUR$  OR  $0.5\mu A(20^\circ C)$   
Measured after 5 minutes application of rated voltage  
CR-( $\mu F$ ) Nominal Capacitance:UR-(V)Rated Voltage
- ◆ Load Life: 85°C, After applying rated voltage for 200 gyres at 85°C  
Capacitance change: within +-10% of the initial value  
Dissipation factor: Not more than 150% of the specified value  
Leakage current: Not more than the specified value
- ◆ Operating Temperature: -55 ~ + 125°C (>85°C applying rated voltage)
- ◆ Rated Voltage Range: 4 ~ 50VDC
- ◆ Temperature Characteristic:
 

Dissipation Factor (°C)			Capacitance Change	
-55	+85	+125	-55	+85

## S.C.R. ELECTRONICS COMPONENTS

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**Case Size, Derated Voltage & Surge Voltage: Table 1**

UR	V	4	6.3	10	16	20	25	35	50
	Code	G	J	A	C	D	E	V	T
UD(V)		2.5	4	6.3	10	13	16	23	32
SV(V)		5	7	11.5	18	23	29	40	57
CR		Case Size (Standard / Miniature/ Super Miniature)							
$\mu$ F	Code								
0.1	104							A	A
0.15	154							A	B/A
0.22	224							A	B/A
0.33	334					P	A	A	B/A
0.47	474				P	P	A	B/A	C
0.68	684			P	A/P	A	A	B/A	C
1.0	105		P	A/P	A/P	A	B/A	B	C
1.5	155		A/P	A/P	B/A/P	B/A	B	C/B	D/C
2.2	225	A/P	A/P	A/P	B/A/P	B/A	B	C/B	D/C
3.3	335	A/P	A/P	B/A/P	B/A	B	C/B	C	D
4.7	475	A	B/A/P	B/A	C/B/A	C/B	D/C/B	D/C	D
6.8		B/A	B/A	C/B/A	C/B	D/C/B	D/C	D	D
10		B/A	B/A	C/B/A	C/B	D/C	D/C	D	
15		C/B/A	C/B	D/C/B	D/C/B	D/C	D/C	D	
22		C/B/A	D/C/B	D/C/B	D/C/B	D/C/B	D/C	D/C	
33		D/C/B	D/C/B	D/C/B	D/C	D/C	D		
47		D/C/B	D/C/B	D/C	D/C	D	D		
68		D/C/B	D/C/B	D/C	D	D			
100		D/C	D/C	D/C	D				
150		D/C	D/C	D					
220		D/C	D/C	D					
330		D	D						

**Dimensions (mm): Table 2**

Case Size		L $\pm$ 0.2	W1 $\pm$ 0.2	H $\pm$ 0.2	S $\pm$ 0.2	W2 $\pm$ 0.2
P	2012	2.0	1.25	1.2	0.55	1.1
A	3216	3.2	1.6	1.6	0.8	1.2
B	3528	3.5	2.8	1.9	0.8	2.2
C	6032	6.0	3.2	2.5	1.3	2.2
D	7343	7.3	4.3	2.8	1.3	2.4

**Temperature Characteristics: Table 3**

Capacitance ( $\mu$ F)	Cap. Change (%)			DF Max. (%)			
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C
<1.0	-10	+10	+12	6	4	6	6
1.5 - 68				10	6	10	10
100 - 470				12	10	12	12

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