

# CKT

## Chip Tantalum Capacitor - SMD

SOLID ELECTROLYTE, HIGH VOLUMETRIC EFFICIENCY, STABLE ELECTRIC PERFORMANCES

### ■Features

- Molded case available in six case codes
- Compatible with all popular “High Volume” automatic pick and equipment
- Optical character recognition qualified

### ■Specifications

OPERATING TEMPERATURE: -55°C to +125°C; (>85°C applying derated voltage)  
 RATED VOLTAGE: 4 ~ 50VDC  
 CAPACITANCE TOLERANCE: K: (±10%), M: (±20%), J: (±5%, for special order) (20°C, 120HZ/100HZ)  
 LEAKAGE CURRENT:  $I_o \leq 0.01 C_R V_R$  or  $0.5 \mu A$  (whichever is greater) Measured after 5 minutes application of rated voltage  
 CR-( $\mu F$ ) Nominal Capacitance; VR-(V) Rated Voltage  
 LOAD LIFE: 85°C, After applying rated voltage for 2000 hours 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

### TEMPERATURE CHARACTERISTIC

Capacitance ( $\mu F$ )	Capacitance Change (%)			DF Max. (%)				DCL Max. ( $\mu A$ )	
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+85°C	+125°C
$\leq 1.0$				6	4	6	6	+10 I <sub>o</sub>	+12 I <sub>o</sub>
1.5 ~ 68	±10	±10	±12	10	6	10	10		
100 ~ 470				14	12	14	14		

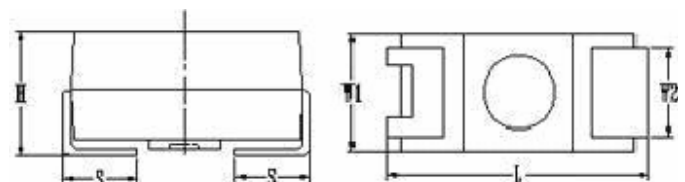
### ■Case Size, Derated Voltage & Surge Voltage

V <sub>R</sub>	V	4	6.3	10	16	20	25	35	50
Voltage Derating (V)		2.5	4	6.3	10	13	16	23	33
Surge Voltage +85°C (V)		5	8	13	20	26	32	46	65
Surge Voltage +125°C (V)		3.4	5.0	9	12	16	20	26	38
C <sub>R</sub>	Case Size (standard / miniature / Super miniature)								
$\mu F$									
0.1						P		A	A
0.15						P		A	B/A
0.22						P		A	B
0.33						P		A	B
0.47					P	P	A	B/A	C
0.68				P	P	A/P	A	B/A	C
1.0			A/P	A/P	A/P	A	B/A	B/A	C
1.5		P	A/P	A/P	A/P	B/A	B	C/B	D/C
2.2		P	A/P	A/P	B/A	B/A	B	C/B	D
3.3		A/P	A/P	A/P	B/A	C/B/A	C/B	D/C/B	D
4.7		A/P	A/P	B/A/P	B/A	D/B/A	C/B	D/C	E/D
6.8		A/P	B/A/P	B/A	C/B/A	D/C/B	D/C	D/C	D
10		B/A	B/A	B/A	C/B/A	D/C/B	D/C	D/C	E
15		B/A	B/A	C/B	C/B	D/C	D/C	E	
22		B/A	B/A	C/B	D/C	D/C	D	E	
33		C/B	C/B	D/C	D/C	D	E/D		
47		C/B	C/B	D/C	D/C	E/D	E		
68		D/C/B	D/C	D	D	E/D			
100		D/C/B	D/C	D/C	D	E			
150		D/C	D	E	E				
220		D	E/D	E/D	E				
330		E	E/D	E					
470		E							

Marking code for case size p

### ■Diagram of Dimensions (unit: mm)

Case Size	L ± 0.3	W1 ± 0.3	H ± 0.3	S ± 0.3	W2 ± 0.2
P	2012	2.0	1.2	1.2	0.5
A	3216	3.2	1.6	1.6	0.8
B	3528	3.5	2.8	1.9	0.8
C	6032	6.0	3.2	2.5	1.3
D	7343	7.3	4.3	2.8	1.3
E	7343	7.3	4.3	4.0	1.3



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### ■How To Order

<b>CKT</b>	<b>0R1</b>	<b>M</b>	<b>350</b>	<b>A</b>	<b>T</b>	<b>R</b>
Series	<u>1.</u>	<u>2.</u>	<u>3.</u>	<u>4.</u>	<u>5.</u>	<u>6.</u>

### 1. Nominal Capacitance

Code	0R1	R22	010	2R2	220	221
Capacitance	0.1uF	0.22uF	1uF	2.2uF	22uF	220uF

### 2. Capacitance Tolerance

Code	K	M	J
Tolerance	±10%	±20%	±5%

### 3. Rated Voltage

Code	040	060	100	160	200	250	350	500
Voltage	4V	6.3V	10V	16V	20V	25V	35V	50V

### 4. Case

Code	A	B	C	D
Case	A	B	C	D

### 5. Packing

Code	T
Packing	Tape & Reel

### 6. Pb

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.