

# CHIP TANTALUM CAPACITOR - SMD

SOLID ELECTROLYTE, HIGH VOLUMETRIC EFFICIENCY, STABLEELECTRIC PERFORMANCES

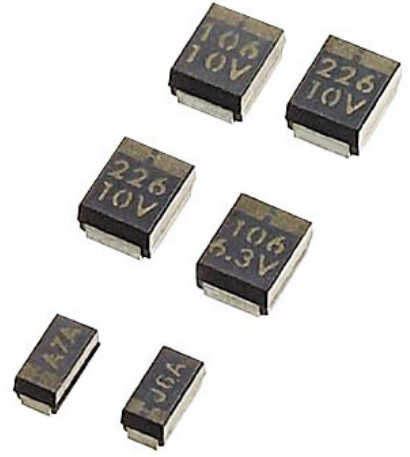
## FEATURES

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

## S P E C I F I C A T I O N S

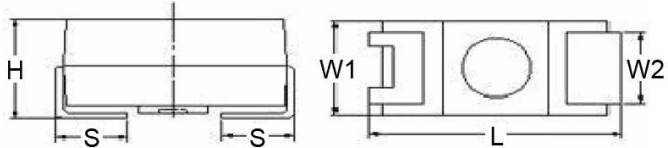
OPERATING TEMPERATURE -55 ~ +125°C (>85°C applying derated voltage)  
 RATED VOLTAGE RANGE 4 ~ 50VDC  
 CAPACITANCE TOLERANCE K: (±10%), M: (±20%) (20°C, 120HZ/100HZ)  
 LEAKAGE CURRENT  $I_{o} \leq 0.01CRUR$  OR  $0.5 \mu A(20^{\circ}C)$  (whichever is greater) Measured after 5 minutes application of rated voltage  
 LOAD LIFE CR-( $\mu F$ ) Nominal Capacitance; UR-(V) Rated Voltage  
 85°C, After applying rated voltage for 2000 giyrs 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	Dissipation Factor (°C)			Capacitance Change			Leakage Current	
	-55	+85	+125	-55	+85	+125	+85	+125
	-10			6	6	6	10I <sub>o</sub>	12I <sub>o</sub>
	+10			10	10	10		
	+12			12	12	12		



## Diagram of Dimensions

Case Size	L+0.3	W1+0.3	H+0.3	S+0.3	W2+0.2
P	2012	2.0	1.2	0.5	1.2
A	3216	3.2	1.6	0.8	1.2
B	3528	3.5	2.8	0.8	2.2
C	6032	6.0	3.2	1.3	2.2
D	7343	7.3	4.3	1.3	2.4
E	7343	7.3	4.3	4.0	2.4



## Case Size, Derated Voltage & Surge Voltage

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