

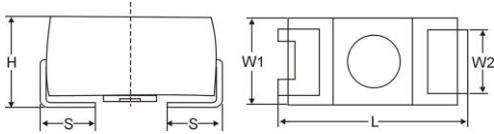
# SMD Chip Tantalum Capacitor – JTB

## FEATURES

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

## SPECIFICATIONS

Operating Temperature Range	-55°C to +125°C (>85°C with rated voltage derating.)
Capacitance Range	0.1μF to 470μF
Rated Voltage	D.C. 4V ~ 50V
Capacitance Tolerance	±20%, ±10%, ±5% (for special order)
DC Leakage Current	$I_o \leq 0.01 CRVR$ or $0.5 \mu A$ (whichever is greater)
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
Case Sizes and Dimensions	Please see Table 2
Dissipation Factor at 20°C	Please see Table 1
Temperature Characteristics	Please see Table 1



### TEMPERATURE CHARACTERISTICS

Table 1

Capacitance (μF)	Capacitance Change (%)			Dissipation Factor Max. (%)				DCL Max. (μA)	
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+85°C	+125°C
≤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		

### DIMENSIONS – MILLIMETERS (Unit: mm)

Table 2

Case Size	L ± 0.4	W1±0.4	H ±0.4	S ± 0.3	W2
P 2012	2.0	1.2	1.2	0.5	1.0±0.2
A 3216	3.2	1.6	1.6	0.8	1.2±0.2
B 3528	3.5	2.8	1.9	0.8	2.2±0.2
C 6032	6.0	3.2	2.5	1.3	2.2±0.2
D 7343	7.3	4.3	2.8	1.3	2.4±0.2
E 7343	7.3	4.3	4.1	1.3	2.4±0.5

### Rated Voltage, Nominal Capacitance and Case Sizes

Table 3

U <sub>R</sub>	V	4	6.3	10	16	20	25	35	50
Rated Voltage Marking	G	J	A	C	D	E	V	T	
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	
Capacitance (μF)	Marking	Case Size (standard / miniature / Super miniature)							
0.1	104							A	A/B
0.15	154							A	A/B
0.22	224							A	A/B
0.33	334						A	A	A/B
0.47	474				P	P	A	A/B	A/C
0.68	684			P	A/P	A/P	A	A/B	A/C
1.0	105	A	A	A/P	A/P	A	A	A/B	C
1.5	155	A/P	A	A/P	A	A/B	A/B	A/B/C	D
2.2	225	A/P	A	A/P	A/B	A/B	A/B	B/C	C/D
3.3	335	A/P	A	A/P	A/B	A/B	B/C	C/D	D
4.7	475	A/P	A	A/B/P	A/B	A/B/C	B/C	C/D	D
6.8	685	A/P	A	A/B	A/B	B/C	B/C	C/D	D
10	106	A/P	A/B	A/B	A/B/C	B/C/D	B/C/D	C/D	
15	156	A/B	A	A/B/C	B/C	C	C/D	D/E	
22	226	A/B	A/B/C	A/B/C	B/C/D	C/D	D		
33	336	B/C	A/B	B/C/D	C/D	C/D	D/E		
47	476	B/C	B/C	B/C/D	C/D	D/E	D/E		
68	686	B/C	B/C/D	C/D	D	D/E			
100	107	B/C	B/C	C/D	D/E				
150	157	C/D/E	C/D	D/E	E				
220	227	C/D/E	C/D	D					
330	337	E	D						

Please visit our website to get more update data, those data & specification are subject to change without notice.