

CHIP TANTALUM CAPACITOR - SMD

Suntan®

SOLID ELECTROLYTE, HIGH VOLUMETRIC EFFICIENCY, STABLEELECTRIC PERFORMANCES

FEATURES

TS20

- 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-(μF) Nominal Capacitance; UR-(V) Rated Voltage 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

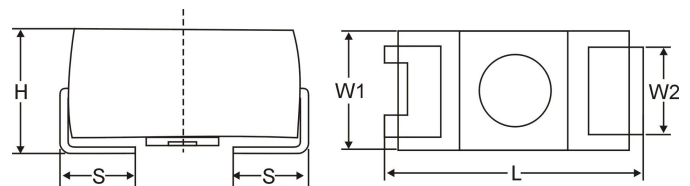
TEMPERATURE CHARACTERISTIC

Dissipation Factor (°C)			Capacitance Change			Leakage Current	
-55	+85	+125	-55	+85	+125	+85	+125
-10			6	6	6	10I _o	12I _o
+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	2.0	1.2	1.2	0.5	1.2
A	3.2	1.6	1.6	0.8	1.2
B	3.5	2.8	1.9	0.8	2.2
C	6.0	3.2	2.5	1.3	2.2
D	7.3	4.3	2.8	1.3	2.4
E	7.3	4.3	4.0	1.3	2.4



Case Size, Derated Voltage & Surge Voltage

U _R	V	4	6.3	10	16	20	25	35	50
Voltage Derating (V)		2.5	4	6.3	10	13	16	23	32
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
CR		Case Size (standard / miniature / Super miniature)							
μF									
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	A/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	D	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							

Marking code for case size p

Note: Specification are subject to change without notice. For more detail and update, please visit our website.