

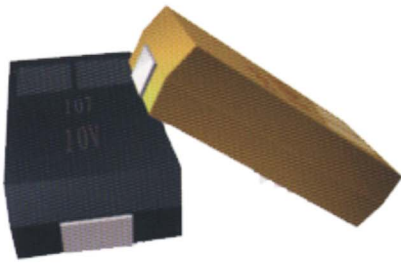


Brief Introduction:

Sinter-anode, molded solid tantalum chip capacitor,featuring small size,high capacitance,high reliability and excellent operation performances,is used for telecommunications,computers,camcorder,SMT electric circuits and so on, it meets the requirements of EIA Standard 535BAAC.

Features

- Operating temperature range :-55℃ ~+125℃; >85℃ with rated voltage derating.
- Capacitance tolerance:±20%;±10%(for special order);
- DC leakage at 25℃;I_L≤0.01C·U_R or 0.5uA(Whichever is greater).
- Dissipation factor at 20℃; please see table3
- Dimensions ,rated voltage and nominal capacitance:please see table1 & 2 and figure1.
- Temperature characteristics:see table3
- ESR:see table4



Dimensions--Millimeters

table1

Case Size	L	W	H	S	W1
S	2.0±0.2	1.3±0.2	1.2±0.2	0.5±0.3	1.2±0.1
A	3.2±0.2	1.6±0.2	1.6±0.2	0.8±0.3	1.2±0.1
B	3.5±0.2	2.8±0.2	1.9±0.2	0.8±0.3	2.2±0.1
C	6.0±0.3	3.2±0.3	2.5±0.3	1.3±0.3	2.2±0.1
D	7.3±0.3	4.3±0.3	2.8±0.3	1.3±0.3	2.4±0.1
E	7.3±0.3	4.3±0.3	4.0±0.3	1.3±0.3	2.4±0.1

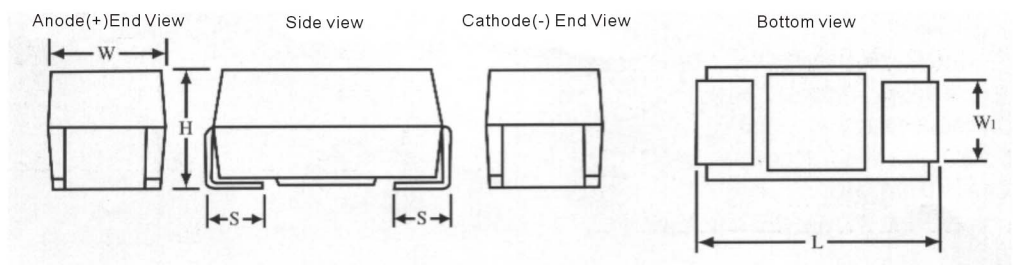
Temperature characteristics

table3

Capacitance (uF)	Capacitance Change			DF Max				DCL Max	
	-55℃	+85℃	+125℃	-55℃	+20℃	+85℃	+125℃	+85℃	+125℃
≤1.0	-10	+10	+12	6	4	6	6	10Io	12Io
1.5-68				10	6	10	10		
100-470				12	8	12	12		

Outline Drawings:

Figure 1



Capacitor ESR Data

Rated Voltage	4	6.3	10	16	20	25	35	50
Capacitance (Standard/Extended)(uF)								
0.1					25.0		24.0	22.0
0.15					25.0		21.0	17.0/15.0
0.22					25.0		18.0	14.0
0.33					25.0		15.0	12.0
0.47				25.0	25.0	14.0	10/12	8.0
0.68			30.0	25.0	12/25	10.0	8.0	7.0
1.0		14/25	13/25	11/20	9.0	7/8	6.5	5.5
1.5	30.0	12/25	10.0/25	8.0/12.0	5/6.5	5.0	4.5/5.2	4.0/4.5
2.2	25.0	9/20	7.0/15	5.5/6.5	3.5/5.3	4.5	3.5	2.5
3.3	9/20	7.0/12	5.5/10	4.5/5.0	2.5/3.0	2.8	2.0/2.5	2.0
4.7	7.5/10	6.0/7.0	4/5	3.5/4	2.5/2.8	2.4	1.5/2.2	1.4
6.8	6.5/7.0	4/5	3/4	2.5/3.5	1.8/2.0	1.4/2.0	1.3	
10	4/6	3/4	2.5/3.0	2.0/2.8	1.3	1.2/1.8	1.0	
15	3.5/4	3.3/4.0	2.2/2.8	1.8	1.1	1.0	0.9	
22	3.2/3.5	2.5/3.5	1.8/2.4	1.1/1.6	0.9	0.9	0.9	
33	2.2/2.8	1.8/2.0	1.1/1.6	0.9/1.5	0.9	0.9		
47	1.8/2.2	1.6/2.0	0.9/1.2	0.9/1.4	0.9/0.9			
68	1.1/1.6	0.9/1.6	0.9	0.9	0.9			
100	0.9/1.3	0.9/1.4	0.9	0.9				
150	0.9	0.9	0.9	0.9				
220	0.9	0.9	0.9	0.9				
330	0.9	0.9	0.9					
470	0.9							

table 4

Tape Dimensions

Case Size	A±0.2	B±0.2	C±0.1	E±0.1	F±0.1	W±0.3
S	1.5	2.4	4.0	1.75	3.5	8.0
A	1.9	3.5	4.0	1.75	3.5	8.0
B	3.1	3.8	4.0	1.75	3.5	8.0
C	3.6	6.4	8.0	1.75	5.5	12.0
D	4.7	7.7	8.0	1.75	5.5	12.0
E	4.8	7.7	8.0	1.75	5.5	12.0

Table 5

Reel Dimensions

Case Size	W	Qty per reel
A B	+1.50 8.4 -0.00	2000
C D	+2.00 12.4 -0.00	500
E	+2.00 12.4 -0.00	400
S	+2.00 12.4 -0.00	2500

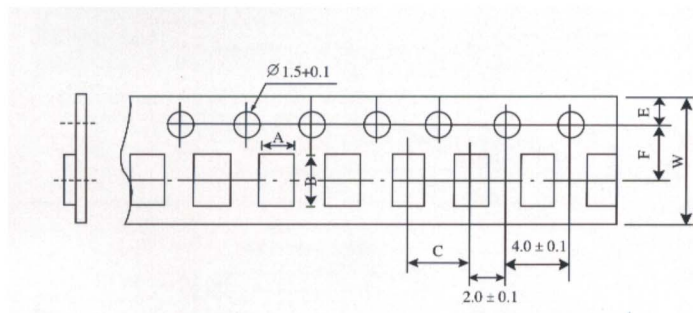
Table 6



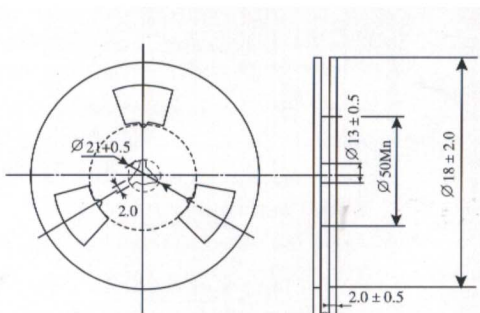
Rated Voltage, Voltage Derating, Surge Voltage and Nominal Capacitance

Rated Voltage(V)	4.0	6.3	10.0	16.0	20.0	25.0	35.0	50.0
Voltage Derating(V)	2.5	4.0	6.3	10.0	13.0	16.0	23.0	33.0
Surge Voltage(V)+85℃	5.0	8.0	13.0	20.0	26.0	32.0	46.0	65.0
Surge Voltage(V)+125℃	3.4	5.0	9.0	12.0	16.0	20.0	26.0	38.0
Capacitance(uF)	Case Size (Standard/ Extended)							
0.1					S		A	A
0.15					S		A	B/A
0.22					S		A	B
0.33					S		A	B
0.47				S	S	A	B/A	C
0.68			S	S	A/S	A	B	C
1.0		A/S	A/S	A/S	A	B/A	B	C
1.5	S	A/S	A/S	A/S	B/A	B	C/B	D/C
2.2	S	A/S	A/S	B/A	B/A	B	C	D
3.3	A/S	A/S	A/S	B/A	C/B	C	D/C	D
4.7	A/S	A/S	B/A	B/A	D/C	C	D/C	E
6.8	A/S	B/A	B/A	C/B	D/C	D/C	D	
10	B/A	B/A	B/A	C/B	D	D/C	D	
15	B/A	B/A	C/B	C	D	D	E	
22	B/A	B/A	C/B	D/C	D	D	E	
33	C/B	C/B	D/C	D/C	D	E		
47	C/B	C/B	D/C	D/C	E/D			
68	D/C	D/C	D	D	E			
100	D/C	D/C	D	D				
150	D/C	D	E	E				
220	D	E	E	E				
330	E	E	E					
470	E							

Table2



Please see table5



Please see table6