

VTR-C Dipped Tantalum Capacitor



Features:

Sinter-anode, epoxy-coated and are encapsulated with flame-retardant yellow epoxy powder. These series products are good to use for high stable performance, low current leakage and low dissipation factor, also for stable frequency, stable temperature and long life. They meet and exceed the requirements of IEC Specification 384-15-3 and GB7215-87 standard.

Specifications

Operating temperature: -55 ~125°C

Capacitance Tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ (Special Order).

Capacitance Range: 0.1 μ F~470 μ F

Voltage rating: 4V~50V

DC leakage current at 20°C: $I_0 \leq 0.02C_R U_R$ or 1 μ A or greater.

Dissipation factor at 20°C: See table 1

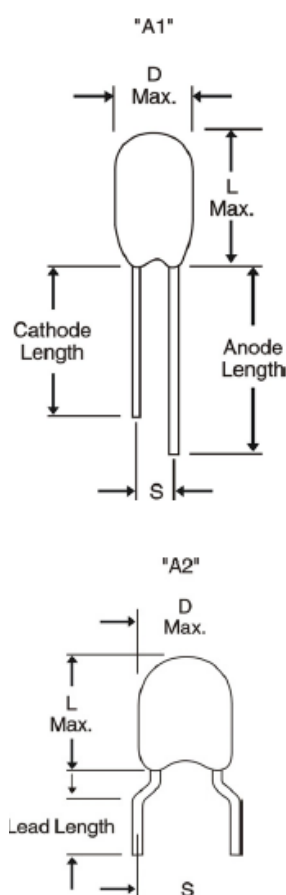
Temperature performance: see table 1.

Climatic category: 55/125/10.

Life test: 1000 hours.

Capacitance (μ F)	Cap. Change (%)			DF Max. (%)				DCL Max. (μ F)		
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+20°C	+85°C	+125°C
<1.0	± 10	± 15	± 25	6	4	6	6	10 $\leq$ 0.02 CRUR or 1 μ F whichever is greater	+10I ₀	+12.5I ₀
1.5 – 6.8				8	6	8	8			
10 – 68				10	8	10	10			
100 - 470				12	10	12	12			

Case Size	D (max)	L (max)	S (± 0.5 mm)	d (± 0.5 mm)
A	4.5	7	2.54	0.5
B	5	8	2.54	0.5
C	5.5	9.5	2.54	0.5
D	6.5	11	2.54	0.5
E	8.5	13	5.08	0.5
F	9.5	16.5	5.08	0.5



Rated Voltage (V)	3	4	6.3	10	16	20	25	35	50
Voltage Derating (V)	2	2.5	4	6.3	10	13	16	20	32
Surge Voltage (V) +85°C	4	5.2	8	13	20	26	33	46	65
Capacitance	Case size								
0.047								A	A
0.068								A	A
0.1								A	A
0.15								A	A
0.22								A	A
0.33								A	A
0.47								A	A
0.68								A	A
1					A	A	A	A	B
1.5					A	A	A	A	C
2.2				A	A	A	A	B	C
3.3			A	A	A	B	B	B	D
4.7	A	A	A	A	B	B	B	C	D
6.8	A	A	A	B	B	C	C	D	E
10	A	A	B	B	B	C	C	D	E
15 A	A	B	C	C	D	D	E	F	
22	B	B	C	C	C	D	D	E	F
33	B	B	C	D	D	E	E	F	
47 C	C	D	D	D	E	E	F		
68	D	D	D	D	E	F	F		
100	D	D	E	E	E	F	F		
150	D	E	E	E	F				
220	E	E	E	F					
330	E	F	F						
470	F								
680	F								