

DIPPED TANTALUM CAPACITOR

◆ Specifications

- Operating Temperature Range : -55°C ~ +125°C Above 85 °C with Voltage Derating
- Tolerance : ± 10%; ± 20%
- DC Leakage Current : $I_L \leq 0.01 C \times U_k$ (μA) (Whichever Is Greater)
- Dissipation Factor : See Table 3

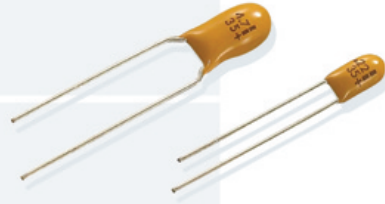
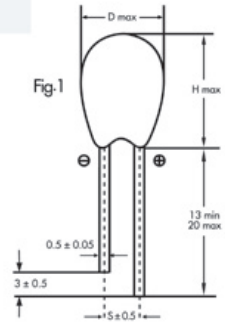


Table 2 Rated Voltage, Voltage Derating, Surge Voltage and Capacitance of Capacitors

Rated Voltage (V)	4	6.3 (6)	10	16	20	25	35 (32)	40	50
Voltage Derating (V)	2.5	4	6.3	10	13	16	20	25	32
Surge Voltage (V)	5	7	11.5	18	23	29	40	46	57
Capacitance (μF)	Case size								
0.1							A	A	A
0.15							A	A	A
0.22							A	A	A
0.33							A	A	A
0.47							A	A	A
0.68							A	A	A
1.0					A	A	A	A	B
1.5					A	A	A	B	C
2.2				A	A	A	B	B	C
3.3			A	A	B	B	B	C	D
4.7	A	A	A	B	B	B	C	D	D
6.8	A	A	B	B	C	C	D	D	E
10	A	A	B	C	C	C	D	E	F
15	A	B	C	C	D	D	E	F	G
22	B	C	C	D	D	D	F	G	G
33	B	C	D	D	E	E	G	G	
47	C	D	D	E	F	F	G		
68	D	D	D	E	G	G			
100	D	D	E	F					
150	E	E	F	G					
220	F	F	G						
330	F	G							



CAPACITOR OUTLINE DRAWINGS

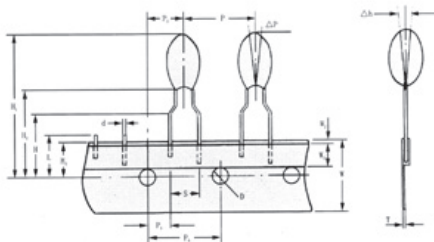
Table 1 Case Dimensions(mm)

Case size	D max	H max	S
A	4.4	7	2.5
B	5	7.5	2.5
C	5.5	9	2.5
D	6	10	2.5
E	7.2	12	2.5
F	8.5	12.5	5
G	9.5	16	5

Note: The other shapes or leads are on request.

Table 3 Temperature Characteristics

Capacitance (μF)	Capacitance change (%)			Dissipation factor Max (%)				Leakage current Max (μA)	
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+85°C	+125°C
≤1.0				4	4	6	6	10 I_L	12.5 I_L
1.5 ~ 6.8	± 8	± 12	± 5	6	6	8	8		
10 ~ 68				8	8	10	10		
100 ~ 330				10	10	12	12		



PACKAGING QUANTITIES

Case size	A	B	C	D	E	F	G
Bulk pack	3000			2000		1000	
Ammo pack	2000			1500			

Designation	Symbol	Dimensions (mm)
Pitch of component	P	12.7 ± 1.0
Feed hole pitch	P ₁	12.7 ± 0.3
Tape width	W	18 ⁺¹ _{-0.5}
Hold down tape width	W ₁	11 min
Hole position	H ₁	9 ^{+0.75} _{-0.5}
Hold down tape position	W ₂	1 max
Overall component height	H ₁	32.5 max
Component alignment	ΔP	± 1.3 max
Feed hole diameter	D	4.0 ± 0.3 max
Tape thickness	T	0.5 ± 0.2 max
Component alignment	Δh	2 max
Length of snapped leads	L	11 max
Lead clinch height	H	16 ± 0.5
Lead wire spacing	S	2.5 ± 0.5 5 ± 0.7
Feed hole center to wire center	P ₁	3.85 ± 0.7
Hole center to component center	P ₂	6.35 ± 0.4
Component height	H ₂	18 ^{-0.2}
Lead diameter	d	0.5 ± 0.05