

Dipped Tantalum Capacitors



Small units with high stable performance, low current leakage and dissipation factor,

stable frequency and temperature and long life

Operating temperature -55-125°C, >85°C With derating voltage.

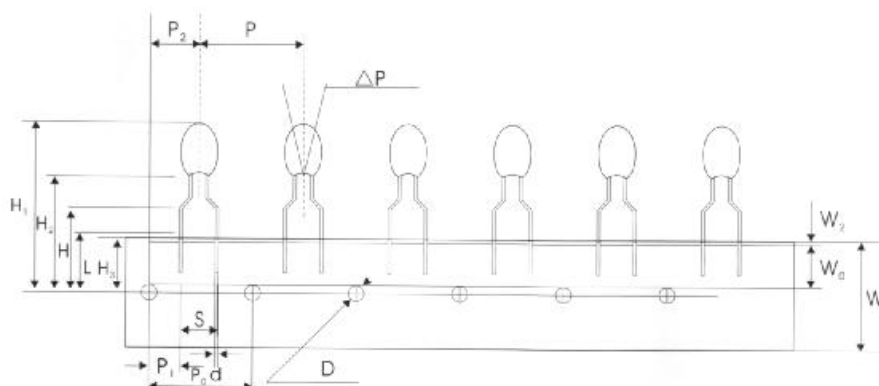
Capacitance range:0.047uF-680uF,

DC Leakage Current(20°C) $I_o \leq 0.01 C U_o$ or 0.5uA(Whichever is bigger),

Life test: 1000hours

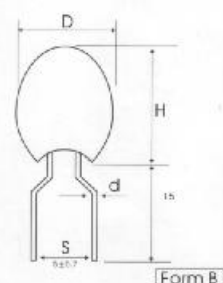
Dimensions-Millimeters

Case Sizes	D (max)	H (max)	H (+0.5mm)	d (+0.5mm)
A	4.5	7.0	2.5	0.5
B	5.0	8.0	2.5	0.5
C	5.5	9.5	2.5	0.5
D	6.5	11.0	2.5	0.5
E	8.5	13.0	5.0	0.5
F	9.5	16.5	5.0	0.5



Dimensions of Ammo

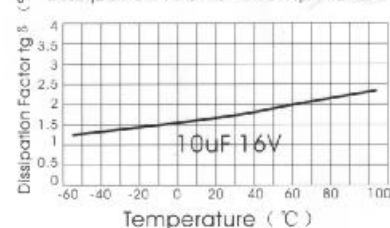
Designation	Symbol	Dimensions(mm)	
Pitch of component	P	12.7±1.0	
Feed hole pitch	Po	12.7±0.3	
Tape Width	W	+1 18 -0.5	
Hold down tape width	Wo	12±0.5	
Hole position	H1	+0.75 9 -0.5	
Hold down tape position	W1	1.0max	
Overall component height	H1	32.5max	
Component alignment	ΔP	±1.3max	
Feed hole diameter	D	4.0±0.3	
Tape thickness	T	0.5±0.2	
Component alignment	Δh	2.0max	
Length of snapped leads	L	11max	
Lead clinch height	H	16±0.5	
Lead wire spacing	S	2.5±0.5	5±0.7
Feed hole center to wire center	P1	5.10±0.5	3.85±0.7
Hole center to component center	P2	6.35±0.4	
Component height	H2	+2 18 -0	
Lead diameter	D	0.5±0.05	



Temperature Characteristics

Capacitance(μF)	Cap Change (%)			DF Max. (%)				DCL Max. (μA)		
	-55℃	+85℃	+125℃	-55℃	+20℃	+85℃	+125℃	+20℃	+85℃	+125℃
≤1.0	±10	±15	±25	6	4	6	6	10:0.01C ₀ U _R or 0.5μA(whichever is greater)	10I ₀	12.5I ₀
1.5-6.8				8	6	8	8			
10-68				10	8	10	10			
100-680				12	10	12	12			

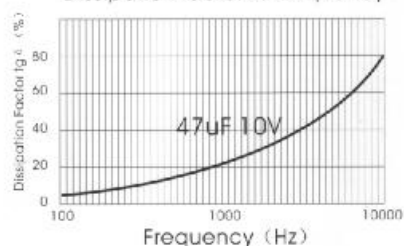
Dissipation factor vs temperature



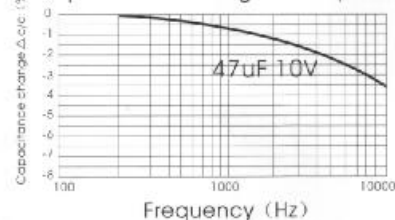
Rated Voltage, Nominal Capacitance and Case Sizes

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)	4	5.2	8	13	20	26	33	46	65
Capacitance (μF)	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								

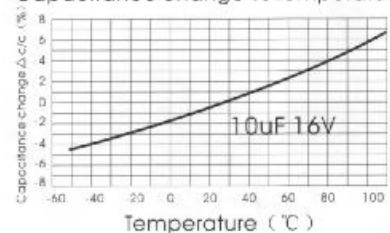
Dissipation factor vs Frequency



Capacitance change vs Frequency



Capacitance change vs temperature



How to order

VTR 105 M 035 01 B

(1) (2) (3) (4) (5) (6)

(1) Product Type: Radial Tantalum Capacitors

(2) Capacitance: 105 = $10 \times 10^5 = 1000000 \mu\text{F}$

226 = $22 \times 10^6 = 22000000 \mu\text{F}$

(3) Tolerance: M = $\pm 20\%$ K = $\pm 10\%$ J = $\pm 5\%$

(4) Working Voltage 035 = 35VDC 016 = 16VDC

(5) Lead Space: 01 = 2.54mm 02 = 5.08mm

(6) Packing: B = BULK A = AMMO