

Dipped Tantalum Capacitors

-55 to +85°C, from 6.3 to 50V

CINETECH
SYMBOL OF QUALITY

Specifications

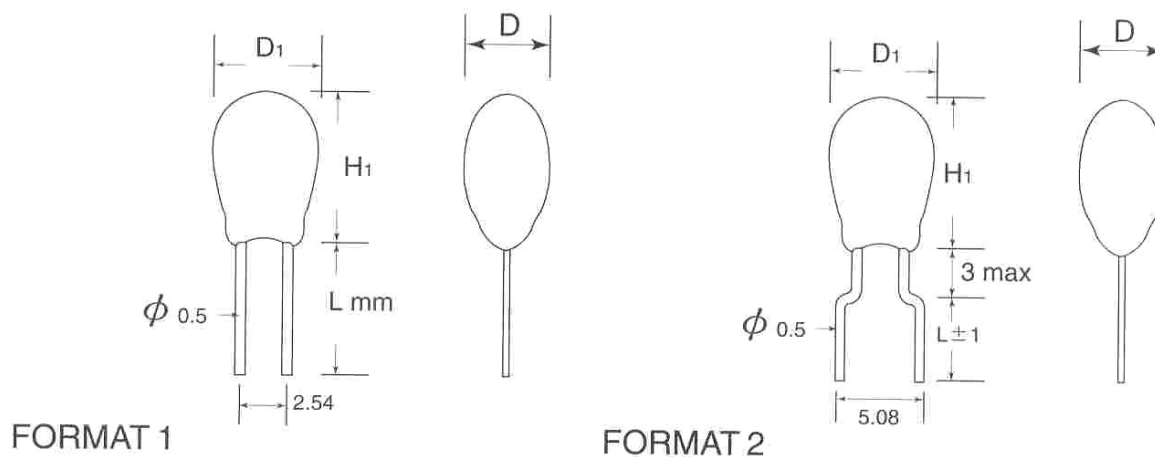
Item	Performance		
Operating Temperature Range	-55 to+85℃ at rated voltage		
Rated Working Voltage Range	6.3 – 50VDC		
Nominal Capacitance Range	0.1 – 330μ F		
Capacitance Tolerance	± 10% or 20% (at+20℃ ,120Hz)		
Leakage Current	Not more than 0.008CV (μ A) or 0.5μ A, whichever is greater.		
Dissipation Factor (tan δ) (120Hz\+20℃)	0.04 max. for ≤ 1.0μ F, 0.06 max. for 1.5 to 68μ F, 0.08 max. for 10 to 68μ F, 0.1 max. for ≥ 100μ F.		
Characteristics at High and Low Temperature	-55℃	Capacitance change	±12% of initial measured value at +20℃
	+105℃	Leakage current	≤ 10% of initial measured value
		Capacitance change	±12% of initial measured value at +20℃
Moisture Resistance	Test conditions : Relative humidity : 90 to 95% without load Ambient Temperature : +40℃. Duration : 500 hrs Post test requirements at +20℃ : Leakage current & Tan δ : ≤0.012CV or 0.75μ F, whichever is greater. Capacitance change : ±10% of initial measured value Tan δ: ≤150% of initial specified value		
Endurance		Derating (10 to 15V only)	Rating
	Duration	1000 hrs	1000 hrs
	Ambient Temperature	+105℃	+85℃
	Applied voltage	Derated working votlage	Rated working voltage
	Source impedance	1Ω / V	1Ω / V
Shelf Life	Test conditions : Duration : 1000hrs., Ambient Temperature : +85℃. Applied voltage : none. Post test requirements at +20℃, same limits for “ Endurance”.		

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Outline



Dimension mm

Case Size	A	B	C	D	E	F
Formats 1,2 H1 MAX.	7.0	8.0	9.5	11.0	13.0	16.5
D1 MAX.	4.5	5.0	5.5	6.5	8.5	9.5
D MAX.	4.2	4.7	5.5	6.5	8.5	9.5

Wire Length (L)	5.7±1	12, 14±1	18, 20±1
Code	A	B	C

Standard pitch size :

2.54 ±0.5mm or 5.08 ±0.5mm

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Rated voltage, Capacitance, and Case Size

Voltage	6.3V	10V	16V	25V	35V	50V
0.1 UF					A	A
0.15 UF					A	A
0.22 UF					A	A
0.33 UF					A	A
0.47 UF					A	A
0.68 UF					A	A
1.0 UF				A	A	B
1.5 UF			A	A	A	C
2.2 UF		A	A	A	B	C
3.3 UF	A	A	A	B	B	D
4.7 UF	A	A	A	B	C	D
6.8 UF	A	B	B	C	D	E
10 UF	B	B	B	C	D	E
15 UF	B	C	C	D	E	F
22 UF	C	C	C	D	E	F
33 UF	C	D	D	E	F	
47 UF	D	D	D	E	F	
68 UF	D	D	E	F		
100 UF	E	E	E	F		
150 UF	E	E	F			
220 UF	E	F				
330 UF	F					

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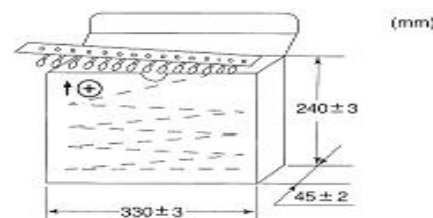
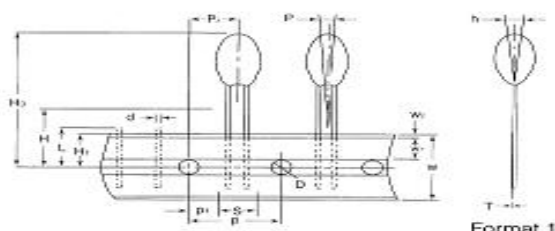
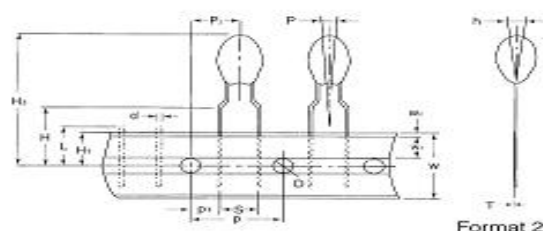
Part Number System :

T (1)	10 (2)	M (3)	10 (4)	R (5)
SERIES Dipped Tantalum Capacitor	CAPACITANCE 0U47 = 0.47UF 1 = 1UF 10 = 10UF 100=100UF	TOLERANCE K=±10% M=±20%	RATED VOLTAGE 6.3=6.3V 10=10V 25=25V 50=50V	PACKING R=Tape/Reel A=Tape/Box B=Bulk

Carrier Tape packaging specifications (mm)

Item	Code	Dimension (mm)
Carrier tape width	W	18.0 +1.0/-0.5
Hold down tape width	W1	6.0 ±0.5
Hold down tape position	W2	1.0 max.
Feed hole diameter	D	4.0±0.2
Feed hole pitch	P	12.7±0.2
Hole center to lead	P1	Format 1: 5.05±0.7 Format 2: 3.85±0.7
Hole center to component center	P	6.35±1.0
Lead wire clench height	H	16±0.5
Hole position	H1	9.0±0.5
Base of component height	H2	0.8 min
Component height	H3	32.2 Max.
Component sligment	$\Delta P / \Delta h$	0±1.3 / 0±2.0
Lead spacing	S	"S" : 2.5+0.6/-0.1 "B" : 5.0+0.6/-0.5
Lead diameter	d	0.5±0.05
Length of snapped lead	L	11.0 max.
Carrier tape thickness	T	0.5±0.1

Taping package :



Case code	A - B	C - D	E - F
Q'TY PCS/BOX	2,500	2,000	1,000