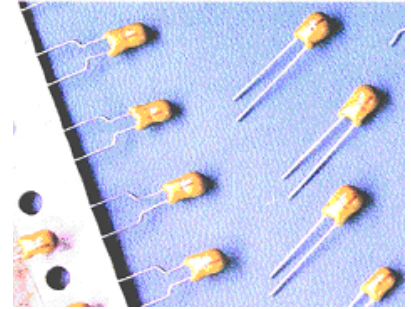


Tantalum Dip Capacitor

Tantalum Electrolytic Capacitors Resin Dipped Type

Features

- Specially designed of general purpose.
- Highly reliable resin dipped type.
- Excellent frequency and temperature characteristics.
- Non-flammable epoxy resin.

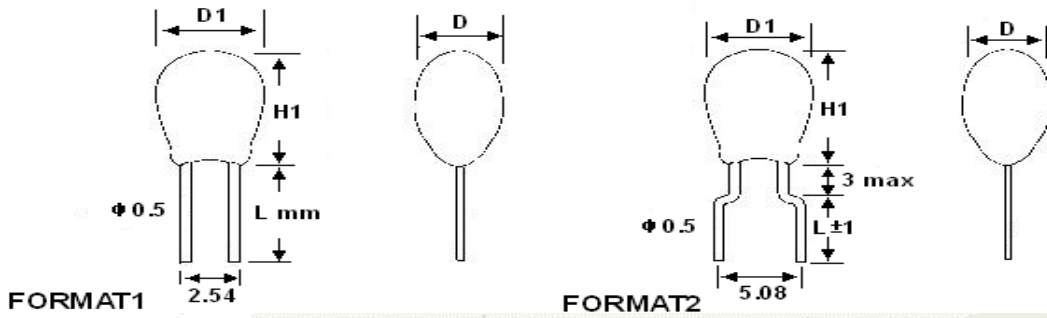


SPECIFICATION:

Item	Performance Characteristics					
Operating Temperature	-55 to +125 (-55 to +85 for 4 & 6.3V)					
Rated Working Voltage Range	6.3 to 50 VDC					
Nominal Capacitance Range	0.1 to 330 μ F					
Capacitance Tolerance	\pm 20% (\pm 10% is available) (120Hz, +20)					
Leakage Current	Not more than 0.008CV [μ A] or 0.5 μ A whichever is greater.					
tan (120Hz, +20)	Working voltage		6.3 to 50V			
	Capacitance	1.0 μ F	1.5 to 6.8 μ F	10 to 68 μ F	100 μ F	
	tan max.	0.04	0.06	0.08	0.1	
Characteristics at High and Low Temperature	-55	Capacitance change	\pm 12% of initial measured value at +20			
	+125	Leakage current	10% of initial measured value			
		Capacitance change	\pm 12% of initial measured value at +20			
Moisture Resistance	Test conditions Relative humidity : 90 to 95% without load Ambient temperature : +40 Duration : 500 hours Post test requirements at +20 Leakage current : 0.012CV or 0.75 [μ F], whichever is greater. Capacitance change : \pm 10% of initial measured value tan : 150% of Initial specified value					
Endurance	Conditions		Derating		Rating	
	Item		(for 10 to 50V only)			
	Duration		1000 hours		2000 hours	
	Ambient temperature		+105		+85	
	Applied voltage		Derated working voltage		Rated working voltage	
	Source impedance		1 Ω		1 Ω	
	Derating voltage +125 for 10~50V working					
Working voltage [V] DC		10	16	25	35	50
Derating voltage [V] DC		6.3	10	16	23	33
Post test requirements at +20						
Leakage current : 0.01% CV or 0.0625[μ A], whichever is greater						
Capacitance change : \pm 10% of initial measured value						
tan : Initial specified value						
Shelf Life	Test conditions		Post test requirements at +20			
	Duration		: 2000 hours			
	Ambient temperature		: +85			
	Applied voltage		: (none)			
Same limits for "Endurance".						

Tantalum Dip Capacitor

Tantalum Capacitor Dipped Type Outline Drawings



Dimensions Millimeters

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

Rated Voltage, Capacitance of Capacitors

VR (V)	6.3	10	16	25	35	50
Code	0J	1A	1C	1E	1V	1H
Capacitance (uF)	Case Size					
0.10 (104)					A	A
0.15 (154)					A	A
0.22 (224)					A	A
0.33 (334)					A	A
0.47 (474)					A	A
0.68 (684)					A	A
1.0 (105)				A	A	B
1.5 (155)			A	A	A	C
2.2 (225)		A	A	A	B	C
3.3 (335)	A	A	A	B	B	D
4.7 (475)	A	A	B	B	C	D
6.8 (685)	A	B	B	C	D	E
10 (106)	B	B	B	C	D	E
15 (156)	B	C	C	D	E	F
22 (226)	C	C	C	D	E	F
33 (336)	C	D	D	E	F	
47 (476)	D	D	D	E	F	
68 (686)	D	D	E	F		
100 (107)	E	E	E	F		
150 (157)	E	E	F			
220 (227)	E	F				
330 (337)	F					

Tantalum Dip Capacitor

Packaging of bead tantalum capacitors

Explanation of Part Number

<u>C B</u>	<u>OJ</u>	<u>475</u>	<u>M</u>	<u>1</u>	<u>A</u>	<u>B</u>	<u>B&T</u>
Series Code	Rated Voltage	Nominal Capacitance	Capacitance Tolerance	Format & Lead space	Size Code	Wire Length	Bulk & Ammo pack

Quantity per bag: Code B

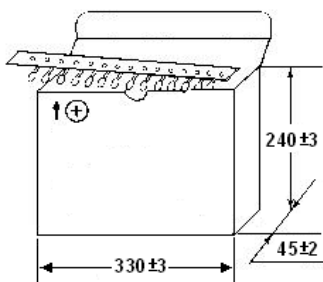
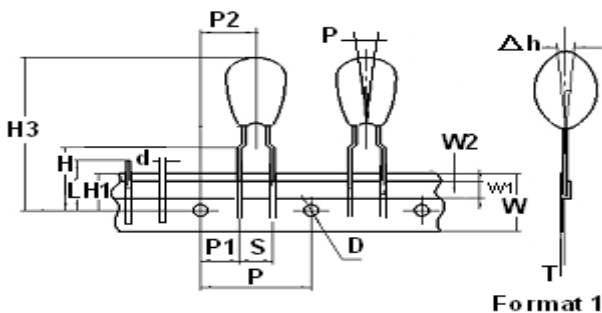
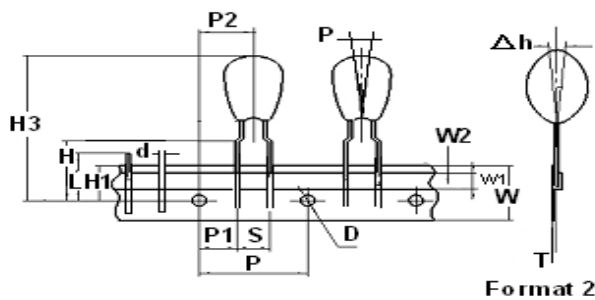
The capacity of the plastic bags depends on

CASE SIZE FORMAT	Qty per bag (cut 7mm)
From A to B	1000
From C to D	1000
From E to F	500

CASE SIZE FORMAT	Qty per bag (cut 14mm)
From A to B	1000
From C to D	500
From E to F	500

CASE SIZE FORMAT	Qty per bag
From A to B	1000
From C to D	500
From E to F	500

TAPE & AMMO PACKING (conform to: IEC286-2) Code T



Case Code	A~B	C~D	E~F
QTY. (PCS/box)	2500	2000	1000

Item	Code	Dimension (mm)
Carrier tape width	W	18.0 ^{+1.0} _{-0.3}
Hold down tape width	W1	6.0±0.5
Hold down tape position	W2	1.0max
Feed hole diameter	D	4.0±0.2
Feed hole pitch	P	12.7±0.3
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	0.8min
Component height	H3	32.2max
Component alignment	P	0±1.3
	h	0±2.0
Lead spacing	S	"S" wire: 2.5 ^{+0.8} _{-0.1}
		"B" wire: 5.0 ^{+0.8} _{-0.5}
Lead diameter	d	0.5±0.05
Length of snapped lead	L	11.0max
Carrier tape thickness	T	0.5±0.1