

SOLID TANTALUM

TD (Resin Dipped Radial) SERIES

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The TD series is a range of resin dipped tantalum capacitors designed for entertainment, commercial, and industrial equipment. They have sintered anodes and solid electrolyte. The epoxy resin housing is flame retardant with a limiting oxygen index in excess of 30 (ASTM-D-2863).

RATINGS

Capacitance Range: 0.1μf to 680μf

Tolerance: ±20%

Voltage Range: 6.3V to 50V

PERFORMANCE SPECIFICATIONS

Operating Temperature Range:

–55°C to +85°C (–67°F to +185°F)

Capacitance Tolerance (M): ±20%
measured at +20°C (+68°F), 120Hz

Dissipation Factor: measured at +20°C (+68°F), 120Hz

Capacitance Range μf	0.1 – 1.5	2.2 – 6.8	10 – 68	100 – 680
	≤ 0.04	≤ 0.06	≤ 0.08	≤ 0.10

Surge Voltage:

DC Rated Voltage	6.3	10	16	20	25	35	50
Surge Voltage	8	13	20	26	33	46	65

MECHANICAL SPECIFICATIONS

Lead Solderability:

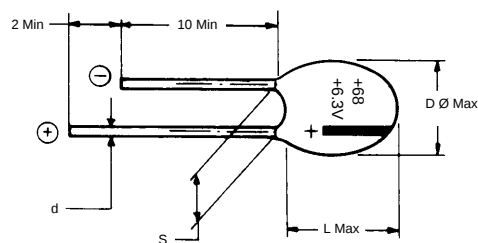
Meets the requirements of MIL-STD 202, Method 208

Marking:

Consists of capacitance, DC voltage, and polarity.

Recommended Cleaning Solvents:

Methanol, isopropanol ethanol, isobutanol, petroleum ether, propanol and/or commercial detergents. Halogenated hydrocarbon cleaning agents such as Freon (MF, TF, or TC), trichloroethylene, trichloroethane, or methylchloride are not recommended as they may damage the capacitor.



ORDERING INFORMATION

Series TD Capacitance 47 Tolerance M Voltage 50

CAPACITANCE RANGE:

(Number denotes case size)

Rated Voltage (WV)	6.3	10	16	20	25	35	50
Surge Voltage (V)	8	13	20	26	33	46	65
Cap (μf)							
0.10						1	1
0.15						1	1
0.22						1	1
0.33						1	2
0.47						1	2
0.68						1	2
1.0				1	1	1	4
1.5			1	1	1	2	5
2.2		1	1	2	2	3	5
3.3	1	1	2	3	3	4	7
4.7	1	2	3	4	4	5	8
6.8	2	3	4	5	5	6	8
10.0	3	4	5	6	6	7	9
15.0	4	5	6	7	7	9	10
22.0	5	6	7	8	9	10	13
33.0	6	7	8	9	10	12	
47.0	7	8	10	11	12	14	
68.0	8	9	11	13	13		
100.0	9	11	13	13			
150.0	11	13	15				
220.0	12	14	15				
330.0	14	15					
470.0	15						
680.0	15						

TD Series Dimensions: mm

Diameter (D Ø) x Length (L)

Case Size	Diameter (D Ø)	Length (L)	Lead Wire (d)	Spacing (S)
1	4.50	8.50	0.50	2.54 ±0.51
2	4.50	9.00	0.50	
3	5.00	10.00	0.50	
4	5.00	10.50	0.50	
5	5.50	10.50	0.50	
6	6.00	11.50	0.50	
7	6.50	11.50	0.50	
8	7.00	12.00	0.40	
9	8.00	13.00	0.50	5.08 ±0.51
10	8.50	14.00	0.50	
11	9.00	14.00	0.50	
12	9.00	14.50	0.50	
13	9.00	16.00	0.50	
14	10.00	17.00	0.50	
15	10.00	18.50	0.50	