

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:

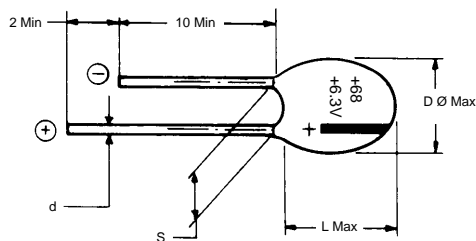
Meets the requirements of MIL-STD 202, Method 208

Marking:

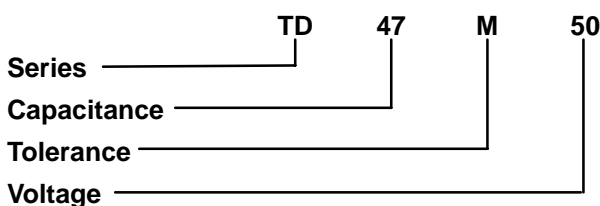
Consists of capacitance, DC voltage, and polarity.

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



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 | |
| 10 | 8.50 | 14.00 | 0.50 | 5.08 ±0.51 |
| 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 | |