



TANTALUM CAPACITORS

M35



Surface-Mount Wet Tantalum Capacitors

KEY BENEFITS

- Molded, surface-mount design
- Internal all-tantalum hermetic cell
- Tin/lead or 100 % tin (compliant to RoHS directive 2002/95/EC) terminations
- All industry standard axial leaded wet tantalum "T1" case size ratings
- Maximum capacitance range: 200 $\mu\text{F}/6\text{ V}$ to 6.8 $\mu\text{F}/125\text{ V}$

APPLICATIONS

- AMS (avionics, military, space) power supplies

Wet Tantalum Capacitors, Surface Mount, Molded Case



FEATURES

- Molded surface mountable design
- Terminations: standard tin/lead (SnPb), 100 % tin (RoHS compliant) available
- Industry standard ratings
- Model M35 wet tantalum electrolytic chip capacitors incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. These units have a 3 V reverse voltage capability at + 85 °C and a higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size.
- Compliant to RoHS directive 2002/95/EC


RoHS*
COMPLIANT

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C
(To + 125 °C with voltage derating)

Capacitance Tolerance: At 120 Hz, + 25 °C. ± 20 % standard. ± 10 %, ± 5 % available as special.

DC Leakage Current (DCL Max.): At + 25 °C and above: Leakage current shall not exceed the values listed in the Standard Ratings Tables.

Life Test: Capacitors are capable of withstanding a 2000 h life test at a temperature of + 85 °C or + 125 °C at the applicable rated DC working voltage.

Following life test:

1. DCL, measured at + 85 °C rated voltage, shall not be in excess of the original requirement.
2. The equivalent series resistance shall not exceed 150 % of the initial requirement.
3. Change in capacitance shall not exceed 10 % from the initial measurement.

| ORDERING INFORMATION | | | | | | | | |
|--|----------------------------------|--|--------------------------|--|---|-------------------|----------|---------------------|
| M35 | C | 826 | M | 125 | B | Z | S | L |
| MODEL | CASE CODE | CAPACITANCE | CAPACITANCE TOLERANCE | DC VOLTAGE RATING AT + 85 °C | TERMINATION AND PACKAGING | RELIABILITY LEVEL | TEMP | ESR |
| | See Ratings and Case Codes Table | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. | K = ± 10 % M = ± 20 % | This is expressed in V. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V). | A = 100 % tin (RoHS compliant), bulk B = Std, tin/lead, bulk | Z = Non-ER | S = Std. | S = Std. L = Low |
| Packaging: The use of formed plastic trays for packing bulk components is standard. | | | | | | | | |

| DIMENSIONS in millimeters | | | | | | |
|---------------------------|----------|---------|-----------|----------|----------------|-----------------------|
| | | | | | | |
| CASE CODE | L (MAX.) | W | H | P (MIN.) | T _w | T _H (MIN.) |
| M35 | 21.2 | 8 ± 0.3 | 7.5 ± 0.3 | 3.0 | 6.0 ± 0.3 | 1.9 |

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* Pb containing terminations are not RoHS compliant, exemptions may apply.

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