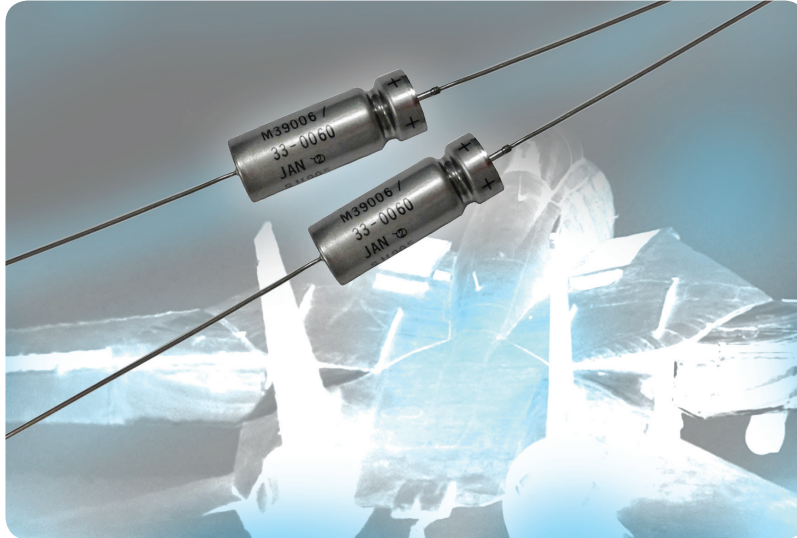# TANTALUM CAPACITORS

## M39006/33

## Wet Tantalum Capacitors, Extended Capacitance, Tantalum Case, High Performance, MIL-PRF-39006



### KEY BENEFITS

- MIL-PRF-39006/33
- Established reliability failure rate
- Case size: T1, T2, T3, T4
- Capacitance range: 15 µF to 680 µF
- Voltage range: 50 V to 100 V

### APPLICATIONS

- Avionics and aerospace

### RESOURCES

- Datasheet: M39006/33 - www.vishay.com/doc?40190
- For technical questions contact tantalum@vishay.com

A WORLD OF SOLUTIONS

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VMN-PT0422-1703
www.vishay.com

# Wet Tantalum Capacitors, Extended Capacitance, Tantalum Case, High Performance, MIL-PRF-39006

## FEATURES
- Hermetically sealed
- Tantalum cased
- Axial lead
- Tubular

## PERFORMANCE CHARACTERISTICS
**Operating Temperature:** -55 °C to +85 °C
(to +125 °C with voltage derating)
**Capacitance Range:** 15 µF to 680 µF
**Capacitance Tolerance:** ± 10 %, ± 20 %
**Voltage Rating:** 50 $V_{DC}$ to 100 $V_{DC}$

## STYLE, MILITARY SPECIFICATION SHEET
Style CLR93, M39006/33     MIL-PRF-39006/33

## DESCRIPTION
Established reliability tantalum capacitors to military specification MIL-PRF-39006: In accordance with the military specification MIL-PRF-39006 all capacitors are marked with the military part number (M39006/xx-xxxx) rather than the older style designation (CLR93) and should be ordered as such.

For information on the performance characteristics of these capacitors, please refer to the latest issue of the military specification. MIL-PRF-39006 establishes 1000 h failure

rate levels of 1 %, 0.1 %, and 0.01 %. When ordering these parts, care must be exercised that the correct part number expressing the appropriate failure level be specified.

Each order for military style capacitors requiring government inspection must state whether inspection is to be at the destination or at the Vishay plant. Orders requiring source inspection cannot be shipped until this has been accomplished.

## ORDERING INFORMATION

| M39006 | /33 | -0030 |
|---|---|---|
| BASIC DOCUMENT NUMBER | SLASH SHEET | DASH NUMBER |
| Indicates the basic specification; in this case MIL-PRF-39006 | Indicates the specification sheet of the basic military specification | Taken from Standard Ratings table |

## DIMENSIONS in inches [millimeters]

**Style CLR93**



| CASE CODE | BARE CASE | | WITH INSULATING SLEEVE | | E LEAD LENGTH | WEIGHT (oz./g) (Max.) |
|---|---|---|---|---|---|---|
| | D | L | D (Max.) | L (Max.) | | |
| T1 | 0.188 ± 0.016 [4.78 ± 0.41] | 0.453 + 0.031 / - 0.016 [11.51 + 0.79 / - 0.41] | 0.219 [5.56] | 0.515 [13.08] | 1.500 ± 0.250 [38.10 ± 6.35] | 0.10 [2.6] |
| T2 | 0.281 ± 0.016 [7.14 ± 0.41] | 0.641 + 0.031 / - 0.016 [16.28 + 0.79 / - 0.41] | 0.312 [7.92] | 0.704 [17.88] | 2.250 ± 0.250 [57.15 ± 6.35] | 0.24 [6.2] |
| T3 | 0.375 ± 0.016 [9.52 ± 0.41] | 0.766 + 0.031 / - 0.016 [19.46 + 0.79 / - 0.41] | 0.406 [10.31] | 0.828 [21.03] | 2.250 ± 0.250 [57.15 ± 6.35] | 0.46 [11.6] |
| T4 | 0.375 ± 0.016 [9.52 ± 0.41] | 1.062 + 0.031/- 0.016 [26.97 + 0.79/- 0.41] | 0.406 [10.31] | 1.126 [28.60] | 2.250 ± 0.250 [57.15 ± 6.35] | 0.62 [17.7] |

Revision 23-May-16

VMN-PT0422-1703
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