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New M34 and M35 Wet Tantalum Capacitors

The Key Benefits:

- Industry's first wet tantalum capacitors to be offered in a true surface-mountable molded package
- Allow designers to eliminate the last through-hole component on their PCB, reducing overall PCB assembly cost
- Feature wide capacitance range:
 - 10 μ F at 125 V to 120 μ F at 25 V for the M34
 - 1.7 μ F at 125 V to 220 μ F at 6 V for the M35
- Tray packed
- Operate over a temperature range of - 55 °C to + 85 °C
 - Up to + 125 °C with voltage derating
- \pm 20 % standard capacitance tolerance at 120 Hz and + 25 °C
 - \pm 5 % and \pm 10 % also available



The Key Applications:

- Power supplies in all avionics, military, and space applications that currently use Vishay's ST -T1 (M34) or 135D - C/T1 (M35) case ratings

The News:

Vishay Releases Industry's First Wet Tantalum Capacitors in True Surface-Mountable, Molded Package With Wide Capacitance Range of 1.7 μ F at 125 V to 220 μ F at 6 V, \pm 20 % Standard Capacitance Tolerance, and Operate Up To + 125 °C With Voltage Derating

Vishay Intertechnology, Inc. (NYSE: VSH) announces the release of two new wet tantalum capacitors that are the industry's first such devices to be offered in a true surface-mountable molded package.

- Higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size
- Provide all industry-standard T1 wet tantalum ratings



New Product Info



Product Group: Vishay, Tantalum Capacitors/ April 2009

- M35 features a 3-V reverse voltage capability at + 85 °C
- Offer tin/lead or 100 % tin (RoHS compliant) terminations

Key Device Specifications:

Item number	M34	M35
Capacitance range	10 µF at 125 V to 120 µF at 25 V	1.7 µF at 125 V to 220 µF at 6 V
Standard capacitance tolerance	± 20 %	± 20 %
Reverse voltage	N/A	3 V
Temperature range	- 55 °C to + 85 °C; up to + 125 °C with voltage derating	- 55 °C to + 85 °C; up to + 125 °C with voltage derating
Vishay case rating compatibility	ST -T1	135D - C/T1

The Perspective:

As the industry's first wet tantalum electrolytic chip capacitors to be offered in a true surface-mountable molded package, Vishay's new M34 and M35 incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. The devices have a higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size.

Availability: Samples and production quantities of the new surface mountable, wet tantalum capacitors are available now with lead times of approximately 20 weeks for larger orders.

Contact Information:

For further questions, please refer to the nearest Regional Marketing contact within the Vishay Tantalum Capacitor Division.

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