



# New T24 SMD HI-TMP<sup>®</sup> Wet Tantalum Capacitors Save Board Space and Increase Reliability in Oil Exploration, Military, and Aerospace Applications; Feature Operation to +200 °C, Increased Thermal Shock Capabilities, and Longer Life to 2,000 Hours

## Product Benefits:

- High operating temperatures to +200 °C
- Compact C case code measures 9 mm by 7.1 mm by 7.4 mm
- Tantalum metal case with a glass to tantalum hermetic seal
- Thermal shock capability to 300 cycles
- Longer life of 2,000 hours at +200 °C
- 200 °C derated voltage ratings of 45 VDC and 75 VDC, with capacitance values of 33 µF and 10 µF, respectively
- Capacitance tolerance of ± 10 % and ± 20 % standard
- Maximum ESR down to 2.5 Ω at 120 Hz and +85 °C
- RoHS-compliant, halogen-free, and [Vishay Green](#)



## Market Applications:

- Timing, filtering, energy hold-up and pulse power applications
- Oil exploration and military and aerospace radar

## The News:

Vishay Intertechnology introduces a new series of HI-TMP<sup>®</sup> surface-mount wet tantalum capacitors with high operating temperatures to +200 °C in the compact C case code.

- Offer a smaller size and footprint than equivalent through-hole and overmolded high temperature devices
- Designed to utilize board space more efficiently and deliver increased reliability
- Improved thermal shock capability and longer life eliminate the need to utilize larger through-hole devices in demanding environments

## The Key Specifications:

Capacitance at 25 °C	33 µF	10 µF
Capacitance tolerance	± 10 %; ± 20 %	
V <sub>DC</sub> at +200 °C	45 VDC	75 VDC
Case code	C	
Max. ESR at 120 Hz and +85 °C	2.5 Ω	5.5 Ω



## NEW PRODUCT INFORMATION

Product Group: Vishay, Tantalum Capacitors / June 2021



### Availability:

Samples and production quantities of the T24 series are available now, with lead times of 10 weeks.

To access the product datasheet on the Vishay Website, go to

<http://www.vishay.com/ppg?40261> (T24)

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