



## TSM3 Series of Miniature, Sealed Multi-Turn SMD Trimmers in Compact 3 mm x 4 mm x 4 mm Footprint Feature IP67 Sealing and High Temperature Operation to +150 °C for Harsh Environments

### Product Benefits:

- Compact 3 mm by 4 mm by 4 mm footprint
- Wide temperature range of -65 °C to +150 °C
- Wide 10 Ω to 2 MΩ resistance range
- 0.125 W power rating at +70 °C
- Available in both top and side adjustment styles, providing flexibility for various design requirements
- Fully sealed to withstand standard board wash processing



### Market Applications:

- Setting reference voltage in power supplies, tuning the frequency of oscillators, and adjusting the sensitivity of sensors for automation controls; welding and cooling systems; robotics; power tools; smoke detectors; radios; and precision testing instrumentation

### The News:

Vishay Intertechnology introduces a new series of multi-turn, surface-mount cermet trimmers. Designed for space-constrained industrial, consumer, and telecom applications in harsh environments, the TSM3 series devices combine a compact 3 mm by 4 mm by 4 mm footprint with a wide temperature range of -65 °C to +150 °C and IP67 sealing.

- Offer a 25 % smaller case size and wider operating temperature range than previous-generation devices
- Allows for fine tuning of its wide resistance range
- Features a faster setting to time ratio than single-turn trimmers
- Supports automated PCB assembly and setting processes, enhancing production efficiency to save time and lower costs

### The Key Specifications:

- Maximum power at +70 °C: 0.125 W
- Standard resistance values: 10 Ω to 2 MΩ
- Maximum working voltage: 200 V
- Operating temperature range: -65 °C to + 150 °C
- Typical TCR: ± 100 ppm/°C



## NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Potentiometers / January 2025



### Availability:

Samples and production quantities of the TSM3 series are available now, with lead times of 15 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?51093> (TSM3)

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