



Offered in Compact 4 mm x 4 mm Footprint, Space-Saving, Industrial-Grade Multi-Turn SMD Cermet Trimmers for Harsh Environments Feature IP67 Sealing and High Temperature Operation to +140 °C

Product Benefits:

- Miniature 4 mm by 4 mm footprint
- Wide temperature range of -55 °C to +140 °C
- IP67 sealing
- 0.25 W power rating at +85 °C
- Available in both top and side adjustment styles, providing flexibility for various design requirements



Market Applications:

- Welding equipment, power tools, smoke detectors, and heating, cooling, and ventilation systems

The News:

Vishay Intertechnology introduces a new series of industrial-grade, multi-turn, surface-mount cermet trimmers. Designed for space-constrained applications in harsh environments, the Vishay Sfernice TSM41 series devices combine a compact 4 mm by 4 mm footprint with a wide temperature range of -55 °C to +140 °C and IP67 sealing.

- Compared to previous-generation devices, the trimmers offer a 42 % smaller case size, allowing designers to save board space and optimize package density
- The TSM41 series allows for fine-tuning of its wide 10 Ω to 1 M Ω resistance range, and a faster setting to time ratio than single-turn trimmers
- The devices can be mounted directly to the PCB, allowing for automated PCB assembly and setting processes – enhancing production efficiency to save time and lower costs – while enabling the components to be placed on both sides of the board
- The TSM41 series is fully sealed to withstand standard board wash processing

The Key Specifications:

- Dimensions: 4 mm by 4 mm
- Operating temperature range: -55 °C to +140 °C
- Resistance range: 10 Ω to 1 M Ω
- Power rating at +85 °C: 0.25 W



NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Trimmers and Potentiometers / **August 2025**



Availability:

Samples and production quantities of the TSM41 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?51105> (TSM41)

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