



Qualified to MIL-STD-981 Class S Standard, SGTPL-2516 Space-Grade Hybrid Planar Transformers Feature Patented Unique Winding Structure and Building Technique, Offer Lower Cost, Smaller Size, and Higher Density Than Traditional Planar Devices

Product Benefits:

- Designed for the harshest of environments:
 - Compliant with MIL-STD-981 class S
 - Rugged package featuring molded windings
 - High temperature operation to +130 °C
- Available with through-hole terminations and multiple package sizes
- High dielectric withstand voltage to 1500 VAC



Market Applications:

- Switch mode power supplies and DC/DC and AC/DC converters in avionics, military, and space (AMS) applications

The News:

Vishay Intertechnology introduces a new series of low profile, patented space-grade hybrid planar transformers for power conversion applications. Offering a lower cost, smaller size, and higher density than traditional planar transformers, customizable Vishay Custom Magnetics SGTPL-2516 series devices meet the requirements of MIL-STD-981 class S.

- Featuring a unique patented winding structure and build technique, the transformers provide a greater copper fill factor than can be achieved with traditional planar devices, resulting in a smaller package size and improved efficiency and power density
- The SGTPL-2516 series' winding technology allows for easy modification to meet design-specific requirements for operating voltage, inductance, power, and package size and height with no up-front tooling charges
- In addition to S level MIL-STD-981 A and B group screening, the devices are available with P level screening for design validation testing and other custom screening options

The Key Specifications:

- Power rating: 150 W
- Operating frequencies: 80 kHz to 300 kHz
- Power dissipation: 1.0 W
- Leakage inductance: 0.5 μ H
- Temperature range: -55 °C to +130 °C



NEW PRODUCT INFORMATION



Product Group: Vishay Custom Magnetics, Inductors / **May 2024**

Availability:

Samples and production quantities of the new transformers are available now, with lead times of eight weeks for devices with P level screening and 21 weeks for devices with S level screening.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?34585> (SGTPL-2516)

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