SGCM05339 Space-Grade Surface-Mount Common Mode Choke Provides EMI Filtering with Up to 14.43 A Heat Rating Current, -55 °C to +130 °C Operation, and 1000 V_{RMS} Dielectric Withstand Voltage

Product Benefits:

- Compact, robust nanocrystalline core in a self-shielded design for reliable performance in harsh environments
- Overmolded molded construction for ruggedized applications
- High impedance at extended frequencies with broadband frequency response
- Heat rating current capability up to 14.43 A
- Continuous operating temperature range from -55 °C to +130 °C
- ASTM-E595 outgassing compliant
- Wide range of screening options including MIL-STD-981 Family 04 Class S and Class B, and EEE-INST-002
- Dielectric withstand voltage of 1000 V_{RMS} and insulation resistance at 500 V_{DC}
- Customization available (turn count, wire gauge, temperature class, screening, and more)

Market Applications:

- GaN and SiC switching devices, low profile high current power supplies, DC/DC converters in distributed power systems, and power converters for solar panels

The News:

Vishay Intertechnology introduces the Vishay Custom Magnetics SGCM05339, a new space-grade, surface-mount common mode choke designed to provide EMI filtering and noise suppression for demanding space, aerospace, and defense applications.

- Designed for EMI filtering and noise suppression in demanding space, aerospace, and defense electronics
- Supports GaN and SiC switching applications, where sharp waveform edges can cause radiated emissions

The Key Specifications:

- Inductance per winding: 320 µH to 10 400 µH
- Common mode impedance (typ.): 540 Ω to 3600 Ω
- DC resistance per winding (max.): 0.0029 Ω to 0.1318 Ω
- Heat rating current (typ.)[(1)]: 2.02 A to 14.43 A
- Peak impedance frequency: 2.06 Hz to 31.74 Hz
- Leakage (max.): 0.35 µH to 7.75 µH

[(1)] DC current (A) through the windings in series that will cause an approximate ΔT of 30 °C

Availability:
Samples and production quantities of the new space-grade common mode choke are available now, with lead times of 8 to 12 weeks.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?34682 (SGCM05339)

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