

Surface mount resistors with outrigger heat sink increase power handling capabilities

Smiths Interconnect's SpaceNXT HC-CXH series now tested and qualified for space flights.

Smiths Interconnect, a leading provider of technically differentiated electronic components, subsystems, microwave, optical and radio frequency products announces today the addition of its CXH Surface Mount Outrigger Resistors and Terminations to its SpaceNXT HC Series of fixed and temperature variable attenuators.

The SpaceNXT HC series is specifically designed and tested to meet the space orbit environmental criteria. It is offered in a high-volume solution that leverages the Smiths Interconnect's space heritage to improve reliability and performance over a QPL or COTS product.

The new SpaceNXT™ HC-CXH outrigger resistors and terminations are now available from a standard part list that eliminates the need for time-consuming drawings and specifications. They provide an easy-to-use and cost-effective solution with proven mission assurance and are supplied with all the necessary test and qualification data to ensure space flight compliance.



The SpaceNXT™ HC-CXH outrigger resistors and terminations use a patented layout to offer improved power handling over conventional surface mount solutions without compromising broadband performance. This makes the HC-CXH products suited for a wide array of RF applications, particularly in the Space and Defence markets.

"Smiths Interconnect's proven expertise in RF component design has resulted in a product series ideal for high reliability applications such as those in space orbit environments" says Tullio Panarello, VP and General Manager of the Fibre Optics and RF Components Business Unit at Smiths Interconnect. " To aid RF designers achieve elite performance, we offer multiple configuration, power handling and material options, improving design flexibility and adaptability."

The power increase from the patented design (US 8, 994, 490), with added solderable outrigger pads on the sides of the chip, allows to dissipate significantly more power through the extra thermal paths (approximately 4-12 times more than conventional flip chip solutions).

The HC-CXH resistors and terminations are designed for surface mount (SMT) applications, manufactured using robust thick film process technology, are lead free and RoHS compliant.

The CXH Series is designed for surface mount (SMT) applications and offers:

- Flight units with 100% group A screening with optional Group B and C qualification
- Totally passive DC-27 GHz solution for broadband applications.
- Available lot qualification for higher reliability.

- Small footprint for space and weight savings
- Power handling performance tested based on MIL-PRF-55432 to ensure series qualification.

About Smiths Interconnect

Smiths Interconnect is a leading provider of technically differentiated electronic components, subsystems, microwave, optical and radio frequency products that connect, protect and control critical applications in the commercial aviation, defense, space, medical, rail, semiconductor test, and industrial market segments. Smiths Interconnect is synonymous with exceptional performance whenever a technologically advanced, high quality solution is required to ensure reliability and safety.

Smiths Interconnect is part of Smiths Group. For over 170 years, Smiths Group has been pioneering progress by improving the world through smarter engineering. Smiths serves millions of people every year (to help create a safer, more efficient and better connected world) across four major global markets; Energy, General Industry, Security & Defence and Aerospace. Listed on the London Stock Exchange, Smiths employs c.14,600 colleagues in over 50 countries. For more information visit www.smiths.com.

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