Smiths Interconnect X-band WR112 waveguide components for Space and Defence

Smiths Interconnect, a leading provider of technically differentiated electronic components, subsystems, microwave, optical and radio frequency products for demanding applications extends its broad range of passive components in X-band with the addition of WR112 waveguides.

Smiths Interconnect's comprehensive range of broadband WR112 waveguide components is designed for mission critical applications including satellite communications, commercial datalinks and deep space mission management. Several products of this offering are also used in terrestrial defence applications.

Each device is optimised to operate over broad assigned frequency bands under the most rigorous conditions. The designs have been tested in accordance with customer specifications and space qualified using a comprehensive suite of test facilities available in the company's state-of-the-art test and qualification laboratory in Dundee, Scotland. Qualification comprises thermal shock and cycling, sine/random vibration, mechanical shock and, where appropriate, continuous waveform and peak power under TVAC, critical power and seeded multipaction. Summary and qualification data reports are available to prospective customers.

"Users around the world recognise Smiths Interconnect's experience gained through decades of participation in prestigious space missions." said Tullio Panarello, VP and General Manager of the Fibre Optics and RF Components Business Unit at Smiths Interconnect. "As experts in our respective fields, we work with our customers to ensure that every one of our products will operate as specified and needed. Each of them has been engineered to meet a specific set of requirements and is rigorously tested and qualified in our leading-edge facility that proves our reputation for design and manufacturing excellence", he added.

Smiths Interconnect's X-band WR112 waveguide components offer the following features:

- Aluminium housings with a standard clear passivation coating.
- Low emissivity paint or precious metal plating available on request.
- Broadband requiring fewer part options to address the allocated frequency band
- Temperature stable and multipaction free
- Mechanical modifications upon request, (circulation, flange, etc.)
- Sample data and test reports available to assist the design and qualification process

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, wireless telecommunications, 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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