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For Immediate Release

18 - 110 GHz Circulators Provide up to 200W of Power Handling

June 1, 2017—Smiths Interconnect, a division of Smiths Group plc and supplier of RF, microwave, and millimeter-wave components and subsystems from 18 GHz to 325 GHz, announces the Millitech brand HPC Series of high power circulators. Smiths Interconnect will be in booth #1441 at IMS 2017 June 6th - 8th in Honolulu, HI reviewing these and other microwave and millimeter-wave solutions. The HPC series is designed to accommodate critical millimeter-wave radar and communication bands. At K-band frequency and above these millimeter-wave circulators are able to provide protection, isolation, and duplex capability to high power transmitters and receivers. These circulators are ideal for traveling wave tube transmitter protection.



The HPC Series circulators are able to withstand 200 Watts of continuous wave RF power, with peaks power ratings near 2000 Watts. Typically, these ferrite circulators exhibit low insertion loss below 1.0 dB up to 40 GHz and less than 2.0 dB up to 110 GHz. High isolations of at least 18 dB in all bands from 18 GHz to 110 GHz are standard with these circulators, with port-to-port isolation greater than 26 dB available for some configurations. VSWR ratings of 1.3:1, or less, are typical in all frequency bands, with some configurations providing less than 1.1:1 VSWR.

Housed in high precision machined assemblies, the HPC Series circulators use industry standard rectangular waveguide input and output interfaces to provide the lowest loss and highest signal fidelity. The carefully designed assemblies also enables reliable performance under conditions of high power and extreme temperatures. These ferrite circulators can also be employed as isolators with the appropriate ports terminated.

To learn more about these millimeter-wave high power circulators, [a YouTube video](#) demonstrates the feature/benefits. For pricing inquiries and application assistance, visit Smith's Interconnect online at www.SmithsInterconnect.com.

About Smiths Interconnect

[Smiths Interconnect](#) is a leading provider of technically differentiated electronic components, subsystems, microwave 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 markets. 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](#), a global leader in applying advanced technologies for markets in threat and contraband detection, energy, medical devices, communications and engineered components. Smiths Group employs approximately 22,000 people in more than 50 countries.

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