

X-Band Amplifier Module Targets High Resolution Radar & X-Band Synthesizers

Hittite Microwave Corporation announces a GaAs HBT ultra low phase-noise amplifier module which is appropriate for high performance applications in microwave radio, military & space, radar systems, test instrumentation and synthesizers from 6 to 12 GHz. The HMC-C072 is a GaAs HBT low phase noise amplifier module which provides a phase noise contribution of -167 dBc/Hz at 1 kHz offset, enabling superior modulation accuracy in high resolution radar and X-band synthesizer applications. This amplifier module also provides high dynamic range and exhibits 11 dB of gain, 4.5 dB noise figure and up to 23 dB of output power. Also suited for transceiver architectures, the HMC-C072 delivers up to 22 dBm of saturated output power and typical gain flatness of ± 1 dB with minimal variation over temperature. The device is specified for -55°C to +85°C temperature operation and housed in a miniature hermetic module with field replaceable SMA connectors.

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