

GaAs MMIC Upconverter Covers 17.7 to 23.6 GHz

Hittite Microwave Corporation has introduced a new SMT packaged GaAs MMIC sub-harmonic upconverter which is well suited for point-to-point radio, satellite communications, test & measurement, sensors, military radar, EW and ELINT applications from 17.7 to 23.6 GHz. The HMC711LC5 delivers a small signal conversion gain of 15 dB and wide IF bandwidth of DC to 3.5 GHz. The HMC711LC5 utilizes a double-balanced mixer which is driven by an active x2 multiplier and followed by a high linearity amplifier. This compact upconverter accepts LO input frequencies from 9.5 to 13.6 GHz, and LO power levels as low as 0 dBm, allowing it to be driven directly from a synthesizer output. The device also exhibits +28 dBm output IP3 and +17 dBm output P1dB, and operates from a single +5 V supply.

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<http://www.wirelessdesignmag.com/product-releases/2010/06/gaas-mmhc-upconverter-covers-177-236-ghz>