

Abstracts

A Novel 3V, 7 mA PHEMT GaAs Active MMIC Mixer/LNA for Wireless Applications

H. Morkner, M. Frank and B. Ingram. "A Novel 3V, 7 mA PHEMT GaAs Active MMIC Mixer/LNA for Wireless Applications." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 527-530.

A novel monolithic integrated active Mixer/LNA utilizing advanced pseudomorphic GaAs FETs has been developed. RF Frequency coverage is 900 MHz to 2400 MHz. The Mixer/LNA operates on a single 3 Volt supply at 7 mA. The mixer provides 4 dB conversion gain with a -10 dBm LO drive. The LNA provides a 1.6 dB noise figure and 14 dB gain. The die is small packaged in the SSOP-16 plastic package to keep costs low. This is the only GaAs PHEMT active Mixer/LNA known to provide such performance from such a small DC requirement.

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