

Abstracts

GaAs Monolithic Single-Chip Transceiver

A. Boveda and F. Ortigoso. "GaAs Monolithic Single-Chip Transceiver." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 31-34.

A single-chip transmute/receiver MMIC operating from 1.25 to 3 GHz and incorporating most of the RF functions of a modern communication system is presented. The device incorporates: a direct vector modulator with the necessary phase shifter circuits, an output amplifier for the transmitter, a low-noise amplifier and a down-converter with image rejection. The circuit has 60 MESFET and more than 250 passive components in a 5.0 x 2.4 mm chip and has been manufactured using 0.5 micron GaAs MESFET process.

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