

Abstracts

A C-Band Low-Noise MMIC Phased Array Receive Module

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The development of a GaAs monolithic C-Band low noise phased array receive module is presented. This low cost, high yield module contains five monolithic ICs: two gain stages, two active baluns, and a two-bit phase shifter with on-chip active isolator. Also included are logic decoders, level shift circuitry and two MIC LNAs. The receive module attains 50 dB gain and 2 dB noise figure across the 4-6 GHz band and is realized in a small housing (2.2" x 1.1" x 0.6").

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