

Abstracts

Low Cost Millimeter Wave Monolithic Receivers

A. Chu, L. Chu, D. Sloat, M. Theobald, J. Teunas, T. Litchfield and W. Moroney. "Low Cost Millimeter Wave Monolithic Receivers." 1987 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 87.1 (1987 [MCS]): 63-67.

A 35 GHz receiver using GaAs monolithic and hybrid circuits has been developed for low cost manufacture. The receiver is comprised of a downconverter, an If amplifier and voltage regulators. This paper will report on the design, fabrication, integration, packaging and testing of a monolithic mixer, a monolithic Gunn Diode Oscillator and a GaAs Downconverter circuit which has exhibited a SSB receiver noise figure of 9.5dB.

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