

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.

[Return to main document.](#)