

Abstracts

A Low Noise GaAs MMIC Satellite Downconverter for the 6 to 4 GHz Band (1987 [MCS])

A.R. Harvey, F.J. Cotton, D.C. Pennington, R.M. Eaton and P.D. Cooper. "A Low Noise GaAs MMIC Satellite Downconverter for the 6 to 4 GHz Band (1987 [MCS])." 1987 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 87.1 (1987 [MCS]): 139-142.

An all GaAs MMIC wideband 6 to 4 GHz downconverter technology demonstrator has been designed, developed, fabricated and tested. The module achieves an overall conversion gain of 67 dB with a 3.2 dB noise figure. The MMIC chip set developed includes an LNA, an active splitter, phase shifters, a mixer, broadband power combiners and an IF amplifier. The assembly represents a significant size and weight reduction compared to conventional hybrid units.

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