

Abstracts

60-GHz GaAs MMIC Low-Noise Amplifiers

H.-L.A. Hung, T.T. Lee, F.R. Phelleps, J.F. Singer, J.F. Bass, T.F. Noble, H.C. Huang and P. Rainville. "60-GHz GaAs MMIC Low-Noise Amplifiers." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 87-90.

GaAs monolithic MESFET low-noise amplifiers (LNAs) have been developed at V-band. A single-stage MMIC has achieved a 6.4-dB noise figure and 3.5-dB gain at 59 GHz. A cascaded six-stage amplifier exhibited 9.5-dB minimum noise figure and 26-dB gain from 56 to 60 GHz. These data may represent the first reported results of MMIC LNAs in the 60-GHz band with DC-blocking and bias networks.

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