

Abstracts

Broadband Monolithic Low-Noise Feedback Amplifiers (1983 [MCS])

P.N. Rigby, J.R. Suffolk and R.S. Pengelly. "Broadband Monolithic Low-Noise Feedback Amplifiers (1983 [MCS])." 1983 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 83.1 (1983 [MCS]): 71-75.

A 0.6 to 6 GHz monolithic GaAs FET low-noise feedback amplifier has been developed. This amplifier chip has a gain of 6 dB and a noise figure of around 4 dB over the bandwidth. Gains of dB have been achieved at $\frac{1}{2}$ 1/sub dss/ with 1 dB gain compression points 21 dBm over the band. This paper discusses the design of such amplifiers using as an example a 1 to 10 GHz two stage monolithic amplifier chip presently under development which is capable of being cascaded up to total gains of 50 dB or so with ± 1.5 dB ripple.

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