

# Abstracts

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

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*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 10 dB have been achieved at  $\frac{1}{2}$ 1/<sub>sub</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  $\pm$  1.5 dB ripple.

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