

Abstracts

A Low Noise Single-Ended GaAs Schottky FET Amplifier for a 14 GHz Satellite Communication Application

P. Estabrook, C.M. Krowne, E.J. Crescenzi, Jr. and R.E. Stegens. "A Low Noise Single-Ended GaAs Schottky FET Amplifier for a 14 GHz Satellite Communication Application." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 129-131.

A 14.0 - 14.5 GHz amplifier consisting of a cascade of three single-ended stages which realizes a noise figure of 3.5 dB and a gain of 17 dB has been designed. This has been achieved with a new design technique which is tolerant of changes in FET S-parameters and yet capable of extracting the maximum performance of the device. Results on a 10 GHz amplifier designed with the above technique will also be given.

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