

Abstracts

Low noise broadband MMIC amplifier concept

Z. Nosal. "Low noise broadband MMIC amplifier concept." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 681-684.

Technique of the broadband, low-noise matching of the amplifier input by means of a lossless capacitive feedback is proposed. Bandwidth exceeding one decade with the noise figure on the order 1-1.5 dB and good input matching may be achieved with existing MMIC technologies, which is one of the best noise characteristics reported to date. Prototype 0.5-5 GHz amplifier achieves NF below 1.4 dB and good input matching.

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