Abstracts

A 1 to 40 GHz MESFET Hybrid Distributed Amplifier

H. Brouzes, G. Deredec and Y.W. Bender. "A 1 to 40 GHz MESFET Hybrid Distributed Amplifier." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 849-852.

A 1 - 40 GHz hybrid amplifier with 10 dB minimum gain up 40 GHz and using 0.3 micron MESFETs is presented. Gain ripple is +/- 1dB in the 1 to 26.5 GHz range. Maximum noise figure is 7.5 dB in the 2 - 18 GHz range and output power at one dB gain compression is 11 dBm. The circuit includes a 1-40 GHz biasing system. Device S parameters were measured in the 1-20 GHz band and static measurements used to derive an equivalent circuit of the FET loading to very good agreement between simulations and measurements up to 40 GHz.

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