

Abstracts

A High Gain, Monolithic Distributed Amplifier Using Cascode Active Elements (1986 [MCS])

R. LaRue, S. Bandy and G. Zdasiuk. "A High Gain, Monolithic Distributed Amplifier Using Cascode Active Elements (1986 [MCS])." 1986 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 86.1 (1986 [MCS]): 23-26.

A novel, monolithic, distributed amplifier has achieved a record gain of over 10 dB from 2-18 GHz. The design utilizes five quarter-micron gate length, cascode connected, FETs on epitaxial material . Circuit simulations predict over 10 dB gain from 2-30 GHz for an amplifier with seven active elements. Novel features of the design, fabrication and testing are discussed.

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