

Abstracts

A 20 GHz FET Amplifier in an Integrated Finline/Microstrip Configuration

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This paper describes the design and fabrication of a 20 GHz FET amplifier which uses an integrated combination of finline and microstrip. A broadband finline-to-microstrip transition is presented. The transition incorporates a novel biasing network to provide unconditional stability. The single-stage amplifier including transitions provides better than 6 dB gain over a 1.25 GHz bandwidth.

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