

Abstracts

A 12 Watt 20 GHz FET Power Amplifier

F.S. Auricchio, Jr., R.A. Rhodes and D.S. Day. "A 12 Watt 20 GHz FET Power Amplifier." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 933-936.

A state of the art 20 GHz GaAs FET power amplifier with a maximum output of 12 watts and 15.5% power added efficiency has been developed. The amplifier utilizes a novel 2.0 watt power FET design that incorporates partial input impedance matching circuitry on the FET die to improve bandwidth performance and repeatability. Single ended and balanced power modules were combined with low loss waveguide hybrids in a planar amplifier designed to be compatible with integration into satellite systems.

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