

Abstracts

Monolithic Ku-Band GaAs 1-Watt Constant Phase Variable Power Amplifier

S.D. Pritchett. "Monolithic Ku-Band GaAs 1-Watt Constant Phase Variable Power Amplifier." 1989 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 89.1 (1989 [MCS]): 29-32.

A GaAs monolithic 1.0 Watt constant phase variable power amplifier has been demonstrated for the first time at Ku-band. Compressed gain of this amplifier is greater than 14 dB with >1 Watt output power over the 13.5 to 15.5 GHz band. This amplifier features dual gate FETs which achieve greater than 30 dB of gain control with less than $\pm 10^\circ$ of phase variation over the entire band.

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