Abstracts

A Dual-Gate FET Constant Phase Variable Power Amplifier

D.M. Drury, D.C. Zimmerman and D.E. Zimmerman. "A Dual-Gate FET Constant Phase Variable Power Amplifier." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 219-222.

A 1-Watt X-band variable power amplifier is described which employs an 1800 µm GaAs dual-gate FET. Small-signal models of the device are presented and used to design for minimum insertion phase change over the gain control range. The amplifier has a power-added efficiency of 25 percent and its insertion phase varies less than 15 degrees over a 15 dB gain control range.

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