

Abstracts

A Miniaturized 6.5 - 16 GHz Monolithic Power Amplifier Module

S.D. Bingham, S.D. McCarter and A.M. Pavio. "A Miniaturized 6.5 - 16 GHz Monolithic Power Amplifier Module." 1985 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 85.1 (1985 [MCS]): 38-41.

A miniaturized 6.5 - 16 GHz power amplifier module, which includes T/R switch, dual polarity power supply, switch driver and gate functions was designed using two types of broadband MMIC amplifiers. The two cascade designs were a 900 μm - 1200 μm FET amplifier and a 300 μm - 300 μm feedback amplifier which were used to provide large and small gain functions respectively. The module exhibits 35 dB of gain, 1 watt power output and 55 dB T/R switch isolation.

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