

Abstracts

A 6.5--16-GHz Monolithic Power Amplifier Module

S.D. Bingham, S.D. McCarter and A.M. Pavio. "A 6.5--16-GHz Monolithic Power Amplifier Module." 1985 Transactions on Microwave Theory and Techniques 33.12 (Dec. 1985 [T-MTT] (1985 Symposium Issue)): 1555-1559.

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 broad-band MMIC amplifiers. The two cascade designs were a 900- 1200- μ m FET amplifier and a 300-300- μ m feedback amplifier which were used to provide large and small gain functions, respectively. The module exhibits 35 dB of gain, 1-W power output, and 55-dB T/R switch isolation.

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