Abstracts

A 2 Watt GaAs TX/RX Module with Integral Control Circuitry, for S-Band Phased Array Radars

C.R. Green, A.A. Lane, P.N. Tombs, R. Shukla, J.R. Suffolk, J.A. Sparrow and P.D. Cooper. "A 2 Watt GaAs TX/RX Module with Integral Control Circuitry, for S-Band Phased Array Radars." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 933-936.

This paper describes measured results for a TX/RX module operating in S-band over a 20% bandwidth. The module contains 8 GaAs devices, 5 of which are MMICS. The module has an integral thick film hybrid control circuit containing custom silicon ICs. Transmit powers of 2.0 watts are reported together with receive gains of >=20 dB and noise figures of <=4.0 dB. The module has very accurate 4-bit phase shifting in both TX and RX modes.

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