

Abstracts

A 12-W GaAs Read-Diode Amplifier at X Band

H.Q. Tserng, D.J. Coleman, Jr., F.H. Doerbeck, D.W. Shaw and W.R. Wisseman. "A 12-W GaAs Read-Diode Amplifier at X Band." 1978 Transactions on Microwave Theory and Techniques 26.10 (Oct. 1978 [T-MTT] (Special Issue on Microwave and Millimeter-Wave Integrated Circuits)): 774-778.

Multiple-mesa GaAs Read diodes have been incorporated in a single-stage microstrip amplifier module at X band. Stable CW amplification with an output power of 12 W at 4-dB gain and 23.5-percent power-added efficiency has been demonstrated. Design considerations for the amplifier circuits along with the microwave performance results are presented.

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