

Abstracts

3-watt Q-band waveguide PHEMT MMIC power amplifier module

J.A. Lester, J. Chi, R. Lai, M. Biedenbender, D. Garske, R. Rordan and P.D. Chow. "3-watt Q-band waveguide PHEMT MMIC power amplifier module." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 539-542.

Presented is a 3 watt Q-band PHEMT MMIC power amplifier module with a peak efficiency of 25% at 44.5 GHz, believed to be the highest reported at this power level and frequency. The waveguide power amplifier module features the use of thinned 2-mil GaAs MMICs with off-chip output matching and combining on a 5-mil alumina substrate.

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