

Abstracts

W-Band 0.3W PHEMT MMIC Power Amplifier Module

S. Weinreb, E. Fischer, B. Kane, N. Byer and M. Zimmerman. "W-Band 0.3W PHEMT MMIC Power Amplifier Module." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 25-28.

A compact (1.8 by 3.0 by 3.8cm) WR-10 waveguide amplifier module providing 310-mW power output, 20-dB gain, and 5 GHz of 1-dB bandwidth at a center frequency of 96 GHz is described. The module is comprised of 22 identical pHEMT chips, 4-way microstrip power combiners and dividers, and a 4-way waveguide power combiner.

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