

Abstracts

X-Band 0.5, 1, and 2 Watt Power Amplifiers with Marked Improvement in Power-Added Efficiency

R.D. Boesch and J.A. Thompson. "X-Band 0.5, 1, and 2 Watt Power Amplifiers with Marked Improvement in Power-Added Efficiency." 1990 Transactions on Microwave Theory and Techniques 38.6 (Jun. 1990 [T-MTT]): 707-711.

Very efficient X-band MESFET power amplifiers showing greater power-added efficiency over a wider bandwidth than any X-band amplifiers of comparable output reported to date have been designed, fabricated, and measured. The amplifiers were designed with attention to optimum bias, proper harmonic termination, and efficient power combining. This paper discusses these device and design issues, and describes a straightforward design method which achieved the increased levels of efficiency.

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