

Abstracts

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

R.D. Boesch. "X-Band 0.5, 1, and 2 Watt Power Amplifiers with Marked Improvement in Power-Added Efficiency (Comments)." 1991 Transactions on Microwave Theory and Techniques 39.5 (May 1991 [T-MTT] (Special Issue on Directions in Design and Applications of Microwave Systems)): 897-897.

Power-added efficiency results from MMIC amplifiers which were designed, fabricated, and tested based on work reported in the above paper have caused a reassessment of measurements made in February 1989 for that work. The new MMIC amplifiers exhibited a maximum power-added efficiency of 32% in X-band at 1 watt output power. These results are significantly lower than the 53% average power-added efficiency for the 1 watt hybrid amplifiers previously reported.

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