

# Abstracts

## Monolithic Broadband Power Amplifier at X-Band

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*A. Platzker, M.S. Durschlag and J. Vorhaus. "Monolithic Broadband Power Amplifier at X-Band." 1983 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 83.1 (1983 [MCS]): 59-61.*

Single-ended broadband power amplifier for X-band operation was designed and fabricated on GaAs with chip dimensions of 4.3 x 2.1 x 0.1 mm. The amplifier exhibited over 2 GHz of 1 db small signal bandwidth with more than 1.6 W at 9 db gain at mid-band CW operation with 20% power added efficiency. The recently developed, potentially high yielding, Ta<sub>2</sub>O<sub>5</sub>/capacitor technology enabled the small chip size.

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