

# Abstracts

## Compact, Reliable 70-Watt X-Band Power Module with Greater Than 30-Percent PAE

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*J. Sweder, G.A. Truitt, S.R. Nelson and J.S. Mason. "Compact, Reliable 70-Watt X-Band Power Module with Greater Than 30-Percent PAE." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 57-60.*

A compact X-band solid state module with greater than 70 watts and over 30 percent PAE has been demonstrated over 9.5 to 9.9 GHz. A peak power level in excess of 77 watts with an associated PAE greater than 31 percent is reported. Minimum gain is greater than 13 dB over this frequency range. This was accomplished by combining six highly reliable 12-watt HFET MMIC amplifiers.

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