

# Abstracts

## A One Watt CW, 20% Efficient X-Band Avalanche Diode Amplifier

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D.M. Snider. "A One Watt CW, 20% Efficient X-Band Avalanche Diode Amplifier." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 285-288.

Efficient solid state X- band power generation can be accomplished by utilizing the negative impedance characteristics of avalanche diodes in reflection amplifiers. Breadboard 7 GC circuits have been constructed which exhibit low level gains of 13 db with 500 mc of bandwidth. Power outputs of 1 w cw, with 5 db of gain and 20% conversion efficiency have been realized in the same circuit.

[Return to main document.](#)