

Abstracts

A Wide-Band Gunn-Effect CW Waveguide Amplifier

A. Sone and F.J. Rosenbaum. "A Wide-Band Gunn-Effect CW Waveguide Amplifier." 1972 Transactions on Microwave Theory and Techniques 20.10 (Oct. 1972 [T-MTT]): 645-650.

Broad-band CW amplification with Gunn diodes in waveguide circuits has been obtained, with power gains typically between 10 and 15 dB and half-power bandwidths of more than 1 GHz. It is found that amplifier performance can be modeled with fair accuracy using a rough characterization for the diode parameters.

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