Abstracts

Efficient, Broadband Circuit Performance of Millimeter-Wave IMPATT-Diode Power Amplifiers

D.F. Peterson. "Efficient, Broadband Circuit Performance of Millimeter-Wave IMPATT-Diode Power Amplifiers." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 394-396.

A new technique for evaluating and optimizing the operating circuit efficiency of IMPATT-diode amplifiers and oscillators is presented. This design approach has been used to realize a reliable, Single diode Q-band IMPATT amplifier producing 1.5 Watts output from 43.5 to 45.5 GHz with 5 dB gain.

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