

Abstracts

A Stable Broadband IMPATT Amplifier

C.S. Ward, R.W. Laton and J.A. Spada. "A Stable Broadband IMPATT Amplifier." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 486-488.

A single diode IMPATT amplifier has been demonstrated at X-band which amplifies a 200mw average power input signal by 9 dB over a 1 dB locking bandwidth of 3.7%. This result is believed to be the largest gain-bandwidth product yet achieved with a single IMPATT diode for this power level.

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