

Abstracts

High-Efficiency Avalanche Resonance Pumped Amplification

B. Hoefflinger, C.P. Snapp and L.A. Stark. "High-Efficiency Avalanche Resonance Pumped Amplification." 1969 G-MTT International Microwave Symposium Digest of Technical Papers 69.1 (1969 [MWSYM]): 255-260.

Microwave amplification has been obtained from silicon diodes operated in avalanche resonance pumped modes. DC to RF conversion efficiency was 25% at 1.3 GHz for a saturation gain of 12 dB and a bandwidth of 3%. A nonlinear theory predicts a large dynamic range and efficiencies up to 70%.

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