

Abstracts

Avalanche Diode Superregenerative Amplifier (Correspondence)

P. Ver Planck. "Avalanche Diode Superregenerative Amplifier (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.3 (Mar. 1969 [T-MTT]): 171-172.

A commercial X-band avalanche diode oscillator was operated as a super-regenerative amplifier by coupling a 10-MHz current into the diode's biasing loop. Some frequency response characteristics noted during multiresonant operation which could not be explained using conventional superregenerative-amplifier theory are believed due to diode susceptance modulation.

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