

Abstracts

Improvement of a Microwave Discriminator by an Injection Phase-Locked Oscillator (Correspondence)

J.R. Ashley and F.M. Palka. "Improvement of a Microwave Discriminator by an Injection Phase-Locked Oscillator (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.11 (Nov. 1970 [T-MTT] (Special Issue on Microwave Circuit Aspects of Avalanche-Diode and Transferred Electron Devices)): 1001-1002.

An injection phase-locked oscillator is used as an input microwave-limiting amplifier for a microwave discriminator (FM demodulator) used for noise measurement. This amplifier simultaneously increases sensitivity by 6 dB and reduces the threshold (minimum measurable FM) by at least 10 dB. The oscillator can be frequency-modulated to calibrate the measurement.

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