

Abstracts

BARITT Diode Video Detectors

P.J. McCleer and G.I. Haddad. "BARITT Diode Video Detectors." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 372-374.

The video detection properties of the BARITT diode are described, and experimental and theoretical results for several diode structures are presented. Measured noise equivalent power (NEP) values of less than -99 dBm are reported for a K-band diode in its negative-resistance region. For frequencies beyond those in the negative-resistance region, the detection properties are projected to compare favorably with those of a Schottky-barrier.

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