

Abstracts

K-Band BARITT Doppler Detectors

J.R. East, P.J. McCleer and G.I. Haddad. "K-Band BARITT Doppler Detectors." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 88-91.

The properties of K-band BARITT devices for use as self-mixing doppler detectors have been studied experimentally and with a simplified computer model. The computer results predict sensitive BARITT doppler operation even at low power levels. The experimental results show that the BARITT is superior to both IMPATT and Gunn devices for use as self-oscillating doppler detectors in this frequency range.

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