Abstracts

Tunable Millimeter-Wave Packaged IMPATT Diode Oscillators

K.P. Weller, D.L. English and H.J. Kuno. "Tunable Millimeter-Wave Packaged IMPATT Diode Oscillators." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 320-322.

Broadband mechanically tunable V-band (50-75 GHz) and W-band (75-110 GHz) IMPATT oscillators have been developed using packaged silicon p+n junction diodes. A tuning bandwidth of 20% with minimum output of over 50 mW is obtained in V-band and 6% bandwidth with minimum output over 25 mW is obtained in W-band. Higher power but more limited tuning bandwidth results from using other diode structures.

❑ Return to main document.

Click on title for a complete paper.