

Abstracts

Avalanche Diode Application to Microwave Receivers (Correspondence)

E.T. Harkless. "Avalanche Diode Application to Microwave Receivers (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.8 (Aug. 1968 [T-MTT]): 564-565.

Exploratory investigation into the application of germanium avalanche diodes as beat oscillators in microwave receivers has shown them to have some excellent characteristics for this use. The diodes used in this investigation were made by the Device Development Area of the Bell Telephone Laboratories. A minimum power output of 10 mW in the vicinity of 6 GHz was readily obtainable. Other characteristics of the oscillator such as noise and stability are controlled not only by the diode, but to a very great extent by the circuit in which the diode is imbedded.

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