

Abstracts

Electronic Tuning of the Punch-Through Injection Transit-Time (PITT) Microwave Oscillator (Short Papers)

N.B. Sultan and G.T. Wright. "Electronic Tuning of the Punch-Through Injection Transit-Time (PITT) Microwave Oscillator (Short Papers)." 1972 Transactions on Microwave Theory and Techniques 20.11 (Nov. 1972 [T-MTT]): 773-775.

Experimental results of the dynamic resistance and capacitance of p+-n-p+ punch-through injection transit-time (PITT or BARRITT) diodes are presented. A method of predicting the oscillator electronic tuning from the change in the device capacitance is outlined and verified experimentally at X band.

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