

Abstracts

Optimization of S-Band TRAPATT Oscillators

R.J. Trew, N.A. Masnari and G.I. Haddad. "Optimization of S-Band TRAPATT Oscillators." 1974 Transactions on Microwave Theory and Techniques 22.12 (Dec. 1974, Part II [T-MTT] (1974 Symposium Issue)): 1166-1170.

The optimization of S-band TRAPATT oscillators has been investigated experimentally from both the device and circuit points of view. Methods for selecting a device for optimum operation with a given circuit are discussed. A relatively straightforward circuit optimization technique has resulted in an increase in oscillator efficiency of between 5 and 8 percentage points, representing an RF power increase of approximately 20 percent.

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