

Abstracts

Frequency Tuning of Microstrip TRAPATT Oscillators

P.L. Booth, S.R. Longley and B.H. Newton. "Frequency Tuning of Microstrip TRAPATT Oscillators." 1981 Transactions on Microwave Theory and Techniques 29.1 (Jan. 1981 [T-MTT]): 6-10.

This paper describes two methods of magnetically tuning the frequency of a microstrip TRAPATT oscillator. Tuning ranges in excess of 100 MHz at a center frequency of 2 GHz have been obtained at peak output power levels of typically 40 W with variations in output power of ± 0.2 dB. In one of the methods the harmonics of the oscillator are separated which may enable additional diagnostic information to be obtained for the TRAPATT oscillator.

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