

Abstracts

Tuning Range of the Backward Traveling-Wave Parametric Amplifier (Correspondence)

T.M. Straus. "Tuning Range of the Backward Traveling-Wave Parametric Amplifier (Correspondence)." 1961 Transactions on Microwave Theory and Techniques 9.1 (Jan. 1961 [T-MTT]): 95-95.

Experimental results obtained with backward traveling-wave parametric amplifiers indicate that their tuning range is greater than that predicted when TEM propagation is assumed. An analytical and graphical examination of the possible tuning range when non-TEM transmission lines are considered is given below. This examination shows how the tuning range may be optimized, and indicates what the maximum range would be using realizable transmission lines.

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