

Abstracts

Bandwidth of a Balanced Micropill-Diode Parametric Amplifier (Correspondence)

C.S. Aitchison, R. Davies and C.D. Payne. "Bandwidth of a Balanced Micropill-Diode Parametric Amplifier (Correspondence)." 1968 *Transactions on Microwave Theory and Techniques* 16.1 (Jan. 1968 [T-MTT]): 46-47.

The theoretical $G/\sup 1/2/B$ product available from a varactor parametric amplifier is calculated in terms of the junction parameters, and it is shown that there is a maximum value occurring at an optimum idling frequency. An amplifier design which, using two varactors, enables this optimum $G/\sup 1/2/B$ value to be obtained is then described. A comparison is made between theory and practice.

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