

Abstracts

The Hybrid Parametric Amplifier (Aug. 1980 [T-MTT])

C.S. Aitchison and A. Wong. "The Hybrid Parametric Amplifier (Aug. 1980 [T-MTT])." 1980 Transactions on Microwave Theory and Techniques 28.8 (Aug. 1980 [T-MTT]): 833-839.

This paper calculates the gain and noise performance of a new version of the parametric amplifier in which the signal circuit is part of an artificial transmission line while the idler circuit is resonant. A particularly useful property of this type of parametric amplifier is absence of oscillation with increasing pump power.

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