

Abstracts

Pump Noise Transfer in Parametric Amplifiers (Short Papers)

W.A. Porter, D.I. Breitzer and B. Smilowitz. "Pump Noise Transfer in Parametric Amplifiers (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.10 (Oct. 1974 [T-MTT]): 894-896.

Pump noise transfer in paramps is related to the sensitivity of amplifier gain to AM and FM pump modulation. Measurements performed on an S-band paramp with an 18.4-GHz pump are described. The significance of the results is made explicit by using them to calculate the increase in amplifier noise temperature associated with an IMPATT oscillator pump.

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