

Abstracts

An 18-GHz Double-Tuned Parametric Amplifier (Dec. 1970 [T-MTT])

Y. Kinoshita and M. Maeda. "An 18-GHz Double-Tuned Parametric Amplifier (Dec. 1970 [T-MTT])." 1970 Transactions on Microwave Theory and Techniques 18.12 (Dec. 1970 [T-MTT] (1970 Symposium Issue)): 1114-1119.

A K/sub u-/band nondegenerate parametric amplifier using a single-packaged GaAs varactor diode is described. A very simple structure of the single-tuned amplifier with a new type of idler choke is employed to obtain a large voltage-gain bandwidth product and a low noise temperature. The double-tuned operation exhibits a nearly flat bandwidth of 550 MHz at a 20-dB gain and a noise temperature of 280°K at room-temperature ambience.

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