

Abstracts

Parametric Amplification of Millimeter and Submillimeter Waves: Results, Potentials and Limitations

J. Edrich. "Parametric Amplification of Millimeter and Submillimeter Waves: Results, Potentials and Limitations." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 104-110.

In the past parametric amplification was limited to microwave frequencies, as varactors did not reach high enough cutoff frequencies and low enough parasitic reactance. Recently Au-GaAs Schottky Barrier junctions with cutoff frequencies $f_{\text{sub}} c$ beyond 1000 GHz mounted in Sharpless-wafers have opened the mm-wave region for this device.

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