

Abstracts

20°K-Cooled Parametric Amplifier for 46 GHz with Less Than 60°K Noise Temperature

J. Edrich. "20°K-Cooled Parametric Amplifier for 46 GHz with Less Than 60°K Noise Temperature." 1973 G-MTT International Microwave Symposium Digest of Technical Papers 73.1 (1973 [MWSYM]): 72-74.

The first 20°K-cooled degenerate parametric amplifier for 46 GHz is described. New 20°K-cooled circulators and Schottky barrier junctions are used. Its noise of less than 60°K means almost an order of magnitude improvement over previous uncooled amplifiers.

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