

Abstracts

A Coolable Degenerate Parametric Amplifier for Millimeter Waves (Letters)

J. Edrich. "A Coolable Degenerate Parametric Amplifier for Millimeter Waves (Letters)." 1974 Transactions on Microwave Theory and Techniques 22.5 (May 1974 [T-MTT]): 581-583.

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

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