Abstracts

A Cooled 1-2 GHz Balanced HEMT Amplifier (Short Papers)

S. Padin and G.G. Ortiz. "A Cooled 1-2 GHz Balanced HEMT Amplifier (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.7 (Jul. 1991 [T-MTT]): 1239-1243.

The design detains and measurement results for a cooled L-band balanced HEMT amplifier are presented. The amplifier rises commercially available packaged HEMT devices (Fujitsu FHR02FH). At a physical temperature of 12 K the amplifier achieves noise temperatures between 3 and 6 K over the 1 to 2 GHz band. The associated gain is ~20 dB.

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