

Abstracts

Experimental Results on a Millimeter Wave Microstrip Down-Converter (Correspondence)

R.D. Standley and F.A. Braun. "Experimental Results on a Millimeter Wave Microstrip Down-Converter (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.4 (Apr. 1970 [T-MTT]): 232-233.

A millimeter wave down-converter was built utilizing adhesive-backed copper tape for the microstrip circuit construction. The down-converter incorporated an IMPATT diode local oscillator and a Schottky barrier mixer diode hybrid mounted in the circuit. The performance of the unit was two dB worse than its waveguide counterpart. Optimization of the individual circuit components should permit the performance of a microstrip down-converter to approach very closely that of its waveguide counterpart.

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