Abstracts

Simplified 12-GHz Low-Noise Converter with Mounted Planar Circuit in Waveguide (Short Papers)

Y. Konishi, K. Uenakada, N. Yazawa, N. Hoshino and T. Takahashi. "Simplified 12-GHz Low-Noise Converter with Mounted Planar Circuit in Waveguide (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.4 (Apr. 1974 [T-MTT]): 451-454.

A 12-GHz low-noise converter consisting of a planar circuit mounted in waveguide is described. This circuit consists of a metal sheet with proper patterns that is inserted in the middle of a waveguide parallel to the E plane. All circuit elements required for the converter are pressed or etched. This circuit is very useful for low-cost mass production and good performance. A measured noise figure of 4.5 dB was obtained with a 12-GHz signal frequency and a 420-MHz intermediate frequency.

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