# Abstracts

## Planar Broadband MIC Balanced Frequency Doublers

*R. Bitzer. "Planar Broadband MIC Balanced Frequency Doublers." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 273-276.*

Broadband microwave frequency doublers employing beam-lead Schottky barrier diodes in a new planar balun configuration are presented. Measurement results for output frequencies up to the K-band show good agreement with analytical results. A minimal conversion loss of 8.4 dB and an output frequency ratio exceeding 1:3 were achieved. The low-cost, small-sized multipliers are useful to generate the wideband local oscillator signals required in broadband measuring instruments.

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