

# Abstracts

## Printed-Circuit Balanced Mixer for the 4- and 5-mm Bands

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*P.J. Meier. "Printed-Circuit Balanced Mixer for the 4- and 5-mm Bands." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 84-86.*

A printed-circuit balanced mixer for the 4-mm window and 5-mm oxygen-absorption band is described. The circuit integrates fin-line, coplanar line, and microstrip on a single board suspended in the E-plane of a WR-12 housing. With the LO fixed at 68 GHz, this low-cost mixer has a conversion loss of  $6.6 \pm 1.0$  dB across the signal band of 61 to 72 GHz.

 [Return to main document.](#)