

# Abstracts

## A Novel Broadband Double Balanced Mixer for the 18-40 GHz Range

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*A. Blaisdell, R. Geoffroy and H. Howe. "A Novel Broadband Double Balanced Mixer for the 18-40 GHz Range." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 33-35.*

Double balanced mixers have been constructed in the 18-40 GHz range, utilizing unique planar transmission line techniques which permit easy integration of the mixers with other components to provide a compact, low-cost receiver assembly for band extension of EW systems. The design concepts are discussed and the performance results are presented for three mixer circuits mounted in waveguide structures for operation from 18-26.5 GHz, 26.5-40 GHz and 18-40 GHz.

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