

# Abstracts

## Design and Performance of a Planar Star Mixer (Short Papers)

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*S. Basu and S.A. Maas. "Design and Performance of a Planar Star Mixer (Short Papers)." 1993 Transactions on Microwave Theory and Techniques 41.10 (Nov. 1993 [T-MTT]): 2028-2030.*

This paper describes the realization of a hybrid star mixer as a planar circuit. The mixer has a minimum conversion loss of 5 dB and, for a conversion loss of less than 9 dB, spans over 2.2 GHz in IF bandwidth and 8 GHz in RF/LO bandwidth. The mixer employs a novel, planar balun structure, similar to conductor-backed CPW, that is suitable for realization as a monolithic circuit.

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