

# Abstracts

## A Broadband Planar Monolithic Ring Mixer

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*S. Maas, M. Kintis, F. Fong and M. Tan. "A Broadband Planar Monolithic Ring Mixer." 1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 51-54.*

This paper reports the development of a mixer having RF and LO bands of 3 to 11 GHz and an overlapping IF of 1 to 11 GHz. This was achieved through the use of novel planar spiral RF and LO baluns and a new type of four-wire IF balun. We believe that this is the broadest-bandwidth planar monolithic mixer having an overlapped IF reported to date.

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