

Abstracts

Image-Optimized, Frequency-Scalable Mixers for Millimeter-Wave Applications

D.F. Peterson and D.H. Steinbrecher. "Image-Optimized, Frequency-Scalable Mixers for Millimeter-Wave Applications." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 554-556.

A unique IF measurement procedure for evaluating mixer performance and identifying optimum circuit boundary conditions is presented. The technique is applied to a scalable mm-wave single-sideband (image-sum enhanced) mixer design which provides 3.5 to 5 dB typical conversion loss from conventional, packaged devices.

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