

Abstracts

Low Noise Microwave and Millimeter Wave Integrated Circuit Mixers

A.J. Kelly, H.C. Okean and S.J. Foti. "Low Noise Microwave and Millimeter Wave Integrated Circuit Mixers." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 146-148.

This paper describes the use of integrated circuit technology to achieve enhanced performance in low noise X- and K/sub a/-band mixers. Particular examples of low noise MIC mixer receivers using high-quality GaAs Schottky diodes include a 9.0 - 10.0 GHz image-recovery downconverter exhibiting 4.2 - 5.5 dB SSB noise figure and a 36.5 - 38.5 GHz radiometric downconverter exhibiting 6 dB DSB noise figure.

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