

Abstracts

A Comparison of the Measured and Theoretical Performance of a 140-220 GHz Schottky Diode Mixer

P.H. Siegel, A.R. Kerr and R.J. Mattauch. "A Comparison of the Measured and Theoretical Performance of a 140-220 GHz Schottky Diode Mixer." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 549-551.

The results of a theoretical study of a 140-220 GHz Schottky diode mixer are described. Close agreement is obtained between the measured performance and the performance predicted by the mixer analysis program GISSMIX. The importance of making separate sideband conversion loss measurements is demonstrated. A sensitivity analysis shows the effects of various diode and mount characteristics on the mixer performance.

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