

Abstracts

A Cryogenic Millimeter-Wave Schottky-Diode Mixer (Short Papers)

E.L. Kollberg and H.H.C. Zirath. "A Cryogenic Millimeter-Wave Schottky-Diode Mixer (Short Papers)." 1983 Transactions on Microwave Theory and Techniques 31.2 (Feb. 1983 [T-MTT] (Special Issue on Millimeter-Waves)): 230-235.

We report theoretical calculations and measurements on cryogenic millimeter-wave Schottky-diode mixers. Measurements of the embedding impedances at the signal and image frequencies have been used for the theoretical predictions of the mixer performance, and an excellent agreement with measured performance was obtained. Measurements of embedding impedances for various waveguide structures are reported, and the choice of configuration for optimum single-sideband performance is discussed.

 [Return to main document.](#)