

Abstracts

Anomalous Noise in Schottky Diode Mixers at Millimeter Wavelengths

A.R. Kerr. "Anomalous Noise in Schottky Diode Mixers at Millimeter Wavelengths." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 318-320.

Measurements on state-of-the-art 85 GHz mixers using GaAs Schottky-barrier diodes give high values of noise temperature ratio (~ 1.3) and loss temperature ($\sim 500^\circ\text{K}$) despite low conversion loss ($\sim 5\text{dB}$ SSB) and input noise temperature ($\sim 600^\circ\text{K}$ SSB). The source of this noise has not yet been identified.

 [Return to main document.](#)