

Abstracts

Analysis of Noise in Room-Temperature Millimeter-Wave Mixers

D.N. Held and A.R. Kerr. "Analysis of Noise in Room-Temperature Millimeter-Wave Mixers." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 483-486.

Noise in room-temperature millimeter-wave mixers consists almost entirely of shot and thermal noise generated by the mixer diode. The shot noise is shown to have down-converted components which are correlated with one another. This correlation explains the previously observed "anomalous" noise in millimeter-wave mixers.

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