

Abstracts

A Broad-Band, Low-Noise Receiver at W-Band

C.P. Hu and A. Denning. "A Broad-Band, Low-Noise Receiver at W-Band." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 111-113.

This paper describes a W-band, fixed tuned receiver that achieves double side-band noise figure less than 5.5 dB over 10 GHz bandwidth for both LO and RF ports. This low DSB noise figure includes a 1.6 dB contribution from an amplifier with 1000 MHz bandwidth. Only three milliwatts of LO power, obtained through a broadband frequency doubler, are required for receiver's optimum performance without biasing the mixer diodes.

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