

Abstracts

Quasi-Optical Polarization-Duplexed Balanced Mixer

K.D. Stephan, N. Camilleri and T. Itoh. "Quasi-Optical Polarization-Duplexed Balanced Mixer." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 376-378.

A millimeter-wave antenna-mixer structure on a dielectric substrate is described. Measurements of a 10-GHz model in a quasi-optical system show good conversion loss and LO-to-RF isolation exceeding 30 dB. A GaAs monolithic integrated circuit seems feasible.

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