

Abstracts

Millimeter-Wave Transmitter and Receiver Using the Nonradiative Dielectric Waveguide

T. Yoneyama. "Millimeter-Wave Transmitter and Receiver Using the Nonradiative Dielectric Waveguide." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1083-1086.

Transmitter and receiver front ends have been fabricated in an integrated manner at 35 GHz based on the nonradiative dielectric waveguide (NRD-guide). Structures and characteristics of various key components are described. Transmission testing over a ten month period using the fabricated front ends has proved that the NRD-guide integrated circuits are reliable in performance, moderate in size, hence promising at millimeter-wavelengths.

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