

Measurements of Dispersion Characteristics and Field Distributions in Inverted Strip Dielectric Waveguide in Millimeter Wavelength

M.N. Azarmaneche and B. Chan Song Lint. "Measurements of Dispersion Characteristics and Field Distributions in Inverted Strip Dielectric Waveguide in Millimeter Wavelength." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 208-210.

Numerically analyzed propagation constant and field distributions of inverted strip dielectric waveguides are reviewed. Measurements of these characteristics in the 50 - 75 GHz range are presented. A directional coupler is realized and tested about 70 GHz. The dimensions of this component are different from those proposed by ITOH. Our structure is essentially single mode and has low loss in transmission. There is a good agreement between theoretical and experimental results.

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