Abstracts

Analysis and Measurements of Nonradiative Dielectric Waveguide Bends (1986 [MWSYM])

T. Yoneyama, H. Tamaki and S. Nishida. "Analysis and Measurements of Nonradiative Dielectric Waveguide Bends (1986 [MWSYM])." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 115-117.

The coupling theory is applied to analyze bending loss characteristics of the nonradiative dielectric waveguide. As an application of the theory, a low loss 180° bend with a curvature radius of 5 mm was fabricated and successfully tested at 50 GHz. The measured bending loss never exceeded 0.3 dB.

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