

Abstracts

Transmission Characteristics of Helix Waveguide

K. Yamaguchi, Y. Masuda and T. Kuwahara. "Transmission Characteristics of Helix Waveguide." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 338-340.

A simple frequency transformation method to obtain propagation constant and mode coupling coefficients of a helix waveguide is introduced. Theoretical TE₀₁ mode losses agree well with measured results. Also the transmission characteristics of 5,700 of helix waveguide recently manufactured are described. The inner diameters of them are 51 mm and 60 mm and their unit length is 5 meters.

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