Abstracts

Measurement of Surface Resistance in Oversized Circular Waveguide at Millimeter Wavelengths (Short Papers)

S. Hatano and F. Nihei. "Measurement of Surface Resistance in Oversized Circular Waveguide at Millimeter Wavelengths (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.11 (Nov. 1976 [T-MTT] (Special Issue on Millimeter Waves: Circuits, Components, and Systems)): 886-887.

The increase of the surface resistance of oversized circular waveguides has been accurately evaluated at millimeter wavelengths by measuring attenuations of TE/sub 0n/ modes. The ratios of the effective resistances to the ideal resistances of the wall were found to be 1.27, 1.42, and 1.54 at 40, 60, and 80 GHz, respectively.

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