Abstracts

Linear Tapers in Rectangular Waveguides (Correspondence)

Recently, the special case of a linear double taper in rectangular Waveguide propagating the TE/sub 10/ mode in vacuum dielectric was examined. Approximate expressions for the reflection coefficient and voltage standing-wave ratio as functions of the taper dimensions and free space wave-length were derived and experimentally verified. This correspondence generalizes the equations to be applicable for wave-guides filled with dielectrics of arbitrary relative permittivity /sub K/. As a matter of convenience, equations are numbered to correspond with similar equations in the referenced paper.

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