

Abstracts

Modified H Guide for Millimeter and Submillimeter Wavelengths (Short Papers)

A. Doswell and D.J. Harris. "Modified H Guide for Millimeter and Submillimeter Wavelengths (Short Papers)." 1973 *Transactions on Microwave Theory and Techniques* 21.9 (Sep. 1973 [T-MTT]): 587-589.

A theoretical and experimental investigation is being made of a modified form of H guide as a possible guided wave structure for millimeter and submillimeter wavelengths. The effects of channels in the conducting planes to support a dielectric film has been studied by scaled-up models at 3-cm wavelength. Low losses, even at the shorter wavelengths, are predicted. The channels may be used to filter unwanted higher order modes, and the use of high-permittivity dielectric is suggested to further reduce the guide attenuation.

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