

Abstracts

The Coupling of a Single-Ridge Waveguide to a Fabry-Perot Resonator (Short Papers)

M.L. Van Blaricum. "The Coupling of a Single-Ridge Waveguide to a Fabry-Perot Resonator (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.11 (Nov. 1975 [T-MTT]): 931-934.

The functional forms of the fields in a single-ridge waveguide are presented. Bethe's small-hole diffraction theory is used to determine the coefficient for coupling from various parts of the guide to a Fabry-Perot (FP) resonator. It is shown that frequency-independent coupling over a very broad band is possible, and specific examples are given for the band from 18.0 to 40.0 GHz.

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