

Abstracts

A Dielectric Surface-Wave Structure: The V-Line

P. Diament, S.P. Schlesinger and A. Vigants. "A Dielectric Surface-Wave Structure: The V-Line." 1961 Transactions on Microwave Theory and Techniques 9.4 (Jul. 1961 [T-MTT]): 332-337.

Properties of the V-line, a wedge-shaped surface-wave structure comprising a cylindrical dielectric binding medium of sectorial cross section supported by two conducting plates, are considered in terms of its higher-order hybrid modes of propagation. Practical modifications of the ideal structure are emphasized. Design curves and equations are presented to determine various propagation parameters and their significance is discussed. Experimental verification of the theory is described.

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