

Abstracts

The Design of an Ultra-Broad-Band 3 dB Coupler in Dielectric Waveguide (Short Papers)

Y. Shen, D.-M. Xu and C. Ling. "The Design of an Ultra-Broad-Band 3 dB Coupler in Dielectric Waveguide (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.6 (Jun. 1990 [T-MTT]): 785-787.

A new structure of embedding dielectric waveguide coupler is described which offers advantages such as very flat frequency response over 50% bandwidth, simple construction, and good repeatability. A theoretical analysis by a superposition of normal modes is presented. Experimental results at the 3 mm wave band are given which show agreement with theoretical calculations.

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