

Equivalent Network for an Aperture in the Center Conductor of Microstrip Line (Short Papers)

K.S. Rao and V.M. Pandharipande. "Equivalent Network for an Aperture in the Center Conductor of Microstrip Line (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.1 (Jan. 1991 [T-MTT]): 149-151.

The equivalent circuits for discontinuities in the form of a thin transverse slot and a circular aperture in the center conductor of a microstrip line are determined by a quasi-static analysis using equivalent dipole moments. The series reactance as a function of frequency is evaluated in terms of the geometrical parameters of the discontinuity. Data obtained from transmission measurements are presented to support the theory.

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