

Abstracts

Design of a miniaturized stripline-to-microstrip-line coupler

K. Rambabu and J. Bornemann. "Design of a miniaturized stripline-to-microstrip-line coupler." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. I [MWSYM]): 97-100 vol.1.

A new design methodology for a stripline-to-microstrip-line coupler using apertures in their common ground plane is presented. The design is based on a cosine distribution of aperture sizes and allows the component to be realized within one fifth of a wavelength while maintaining a broadband performance. Various key points of the design such as aperture dimensions and the number of apertures are discussed. The theory is validated by measurements.

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