

Abstracts

A new waveguide directional coupler/hybrid type-favorably suited for millimeter wave application

U. Rosenberg and W. Speldrich. "A new waveguide directional coupler/hybrid type-favorably suited for millimeter wave application." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1311-1314.

A new directional coupler/hybrid type where the principle function is based on higher order mode propagation in an overmoded waveguide region is presented. General design aspects, namely mode transfer functions, interfacing, and layout are discussed. Experimental verification is provided by a 3 dB hybrid for a mm-wave frequency band.

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