

Electromagnetic Model of a Planar Radial-Waveguide Divider/Combiner Incorporating Probes

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A field matching technique is used to develop an electromagnetic model for an M-way planar radial-waveguide divider/combiner incorporating probes. Based on this model, a broadband operation of the radial divider/combiner is investigated. The application of the developed model is shown in a design example of a 20-way power divider.

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