

Abstracts

Phase and Amplitude Characteristics of Dielectric Waveguide Coupler and Six-Port Network

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An improved six-port network has been designed and fabricated using dielectric waveguide. The amplitude and phase characteristics of the 90° hybrids, as well as the amplitude characteristics of the six-port network over the range from 75 to 110 GHz, have been measured. Results of the experiments show that the six-port network is useful over a substantial portion of W band.

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