

Cavity-type directional couplers with simple structure

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This paper treats directional couplers consisting of a rectangular cavity with four waveguide ports. Since the present couplers possess a very simple structure, they are useful for applications at higher microwave and millimeter-wave frequencies, and in a high-power microwave system. Directional couplers with various power-split ratios at X-band are investigated theoretically and experimentally. Furthermore, improvement of their bandwidth is presented.

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