

Abstracts

Novel uniplanar 180/spl deg/ hybrid-ring couplers with spiral-type phase inverters

Chih-Wai Kao and Chun Hsiung Chen. "Novel uniplanar 180/spl deg/ hybrid-ring couplers with spiral-type phase inverters." 2000 Microwave and Guided Wave Letters 10.10 (Oct. 2000 [MGWL]): 412-414.

Novel uniplanar 180/spl deg/ hybrid-ring couplers consisting of coplanar-waveguide (CPW) rings and spiral-type phase inverters are proposed. In this study, CPW phase inverters with single-spiral and twin-spiral type slotline short stubs are utilized to design the hybrid-ring couplers. Specifically, two hybrid-ring couplers with 33% (single-spiral type) and 40% (twin-spiral type) bandwidths are implemented and examined, theoretically and experimentally.

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