Abstracts

Matched symmetrical five-port microstrip coupler

S.P. Yeo and F.C. Choong. "Matched symmetrical five-port microstrip coupler." 2001 Transactions on Microwave Theory and Techniques 49.8 (Aug. 2001 [T-MTT] (Mini-Special Issue on the 2000 IEEE Radio and Wireless Conference (RAWCON))): 1498-1500.

Other researchers have fabricated a symmetrical five-port microstrip coupler (with a double-ring structure) yielding a bandwidth of 58%. It has been found in this paper that a simple modification of the design topology allows the coupler's bandwidth to be broadened to 76%. A first-order model of the new prototype has also been developed, and tests have confirmed that close agreement can be expected between the predicted and experimental results for the coupler's scattering coefficients.

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