

Abstracts

A design mapping formula of asymmetrical multi-element coupled line directional couplers

Joon-Bum Kil, Chul-Soo Kim, Kwan Sun Choi, Jun-Seok Park and Dal Ahn. "A design mapping formula of asymmetrical multi-element coupled line directional couplers." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1293-1296 vol.2.

This paper presents a design mapping formula, which is the relation between performance specification and design parameters, for asymmetrical multi-section coupled transmission line directional coupler. The presented mapping function can provide convenience in its use and accurate design parameters for a given design specification. Simulations and experiments on designed three-, five-, and seven-element coupled line directional couplers with 16 dB/spl plusmn/0.2 dB coupling show the validity of the presented design mapping formula.

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