

# Abstracts

## New Types of 3-dB Directional Couplers of Microstrip Transmission Lines

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*L. Dongtien. "New Types of 3-dB Directional Couplers of Microstrip Transmission Lines." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 265-266.*

In this paper the author has brought forward three new types of 3-dB directional couplers suitable to microstrip circuit. The originality of these couplers is that by using these couplers extraordinary close coupling which is less than  $1-d/\sup B/$  can easily be achieved. An analysis is given to the electric field distribution and the characteristic impedance of the coupling circuit. The designing curves and the design of the 3-dB coupler with experimental data are provided in the paper.

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