

Abstracts

High Directivity Microstrip Couplers Using Dielectric Overlays

C. Buntschuh. "High Directivity Microstrip Couplers Using Dielectric Overlays." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 125-128.

Coupled-line directional couplers in microstrip suffer from low directivity due to the inequality of the even and odd mode wave velocities. A dielectric overlay improves the directivity, but it also tightens the coupling and depresses the coupler impedance. Design curves are presented for making velocity-compensated 50 ohm couplers taking the changes in coupling and impedance into account.

 [Return to main document.](#)