

## Design and Simulation of Coupled-Line Coupler with Different Values of Coupling Efficiency

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**Abstract :** In this paper, two coupled-line couplers are designed and simulated using stripline technology. The coupled-line couplers (A and B) are designed with different values of coupling coefficient 6dB and 10dB respectively. Both of circuits have a coupled output port, a through output port and an isolated output port. Moreover, both circuits are tuned to function around 2.45 GHz. The design results are presented by simulation results obtained using ADS 2012.08 (Advanced Design System) software.

**Keywords :** ADS, coupled-line coupler, directional coupler, stripline

**Conference Title :** ICECSE 2015 : International Conference on Electronics and Communication Systems Engineering

**Conference Location :** Istanbul, Türkiye

**Conference Dates :** April 21-22, 2015