

## Slot-Coupled Double-Sided Microstrip Interconnects and Couplers

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This paper presents a broad-band slot-coupled microstrip vertical interconnect and a microstrip double-layer quadrature coupler. The interconnect demonstrates less than 1 dB insertion loss over a 2.6 octaves bandwidth from 1.39 GHz to 8.5 GHz. The coupler shows an isolation of greater than 15 dB and phase quadrature of  $90^\circ \pm 2.5^\circ$  over 14% bandwidth.

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