

MMIC Wilkinson Couplers for Frequencies up to 110 GHz

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Reciprocal power splitters and combiners can be realized by using Wilkinson couplers. However, for frequencies lower than a few GHz such couplers are normally too large for application in MMICs. At the same time, for designing Wilkinson couplers at high frequencies discontinuities must be considered. For the first time, this paper reports on miniaturized Wilkinson couplers for 1.8GHz with space requirements of $1.2 \times 0.8 \text{ mm}^2$ as well as on designing couplers for frequencies up to 80GHz.

 [Return to main document.](#)