

## Multiport Power Divider-Combiner Circuits Using Circular-Sector-Shaped Planar Components

---

*M.D. Abouzahra and K.C. Gupta. "Multiport Power Divider-Combiner Circuits Using Circular-Sector-Shaped Planar Components." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1747-1751.*

A novel sector-shaped circuit configuration is proposed for designing planar power dividers-combiners that are compatible with microstrip circuits. This configuration is analyzed by using the two-dimensional planar circuit approach. Expressions for impedance matrix parameters of multiport sectorial planar circuits are given. Theoretical and experimental results reported for 90° and 180° power dividers are in good agreement.

 [Return to main document.](#)