

Abstracts

Hybrid planar NRD-guide magic-tee junction

Y. Cassivi and Ke Wu. "Hybrid planar NRD-guide magic-tee junction." 2002 *Transactions on Microwave Theory and Techniques* 50.10 (Oct. 2002 [T-MTT]): 2405-2408.

A new magic-tee circuit is proposed and developed, which is based on the hybrid integration technology of a planar and nonradiative dielectric (NRD) guide. The magic-tee junction combines an NRD-guide T-junction with a microstrip T-junction. Furthermore, LSM/sub 10/-mode radiators are introduced in the magic-tee circuit to reduce its resonance problem. Measured results show that an isolation of 20 dB can easily be achieved between the sum and difference ports.

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