Abstracts

40 to 90 GHz impedance-transforming CPW Marchand balun

K.S. Ang, I.D. Robertson, K. Elgaid and I.G. Thayne. "40 to 90 GHz impedance-transforming CPW Marchand balun." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1141-1144.

It is shown analytically that impedance-transforming planar Marchand baluns can be designed. A GaAs monolithic CPW balun, transforming between a 50 /spl Omega/ source impedance and 160 /spl Omega/ load terminations has been realised to demonstrate the technique. The balun operates from 40 to 90 GHz with excellent performance.

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