

Abstracts

A Wide-Band Strip-Line Balun

E.M.T. Jones and J.K. Shimizu. "A Wide-Band Strip-Line Balun." 1959 Transactions on Microwave Theory and Techniques 7.1 (Jan. 1959 [T-MTT]): 128-134.

A new wide-band strip-line balun that uses a pair of dual coupled-strip-line band-pass filters is described. It can operate over bandwidths up to about 8:1 in the frequency range of about 100 to 10,000 mc. Design data and theoretical performance curves for typical wide-band baluns of this type are presented. The measured performance of an experimental balun operating over a 3:1 frequency range centered at 3000 mc is compared with the theoretical performance, and the effects of discontinuities and dissymmetries in the experimental balun are discussed.

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