

Abstracts

Enhanced Coupled, Even Mode Terminated Baluns and Mixers Constructed Therefrom

R.G. Barber. "Enhanced Coupled, Even Mode Terminated Baluns and Mixers Constructed Therefrom." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. 1 [MWSYM]): 495-498.

A new mixer circuit technology, based upon what we call the Planar Balun, which is appropriate for microstrip or suspended-substrate mixer construction, is introduced. The multilayer Planar Balun is an even-mode-terminated structure which provides coupling in which odd-mode impedance and velocity can be controlled without greatly affecting even-mode characteristics. The Planar Balun and mixer circuitry are described, and comparisons are made with other baluns. Wideband mixer performance and balun voltage distribution are shown. A Planar Balun mixer fabricated in a 0.25-inch-square surface mount package is demonstrated.

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