

Abstracts

A Uni-Planar Double-Balanced Mixer Using a New Miniature Beam Lead Crossover Quad

J. Izadian, K. Irwin, R. Curby, R. Forse and K. Van Buren. "A Uni-Planar Double-Balanced Mixer Using a New Miniature Beam Lead Crossover Quad." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 691-694.

A unique silicon beam lead Schottky diode quad having a crossover configuration and very small size is presented. This rugged, high performance device permits the design of new miniature single-sided double-balanced mixer circuits. They require no backside metal patterning and provide for simple component mounting. The mixers are readily manufacturable and therefore low cost. The uni-planar design has 6.3 ± 0.5 dB conversion loss over the 8-18 GHz band with a 2 GHz IF.

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