

Abstracts

A Branch-Line-Type Eight-Port Comparator Circuit

T. Kawai, K. Iio and T. Kaneko. "A Branch-Line-Type Eight-Port Comparator Circuit." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 869-872.

A novel method of constructing an eight-port comparator with four branch-line 3 dB quadrature hybrids is described theoretically and experimentally. A relative bandwidth of up to 20 percent (for return loss and isolation better than 20 dB) is obtained by addition of simple external circuits. A strong point of the present comparator is to be manufactured on the same face of a substrate using a planar transmission line such as a stripline or a microstrip line.

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