Abstracts

Novel Wide-Bandwidth Matching Technique for Laser Diodes (Short Papers)

A. Ghiasi and A. Gopinath. "Novel Wide-Bandwidth Matching Technique for Laser Diodes (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.5 (May 1990 [T-MTT] (Special Issue on Applications of Lightwave Technology to Microwave Devices, Circuits, and Systems)): 673-675.

This paper describes a low-loss microstrip matching circuit with large bandwidth for connecting a laser diode of nominal impedance of 2 Omega to a 50 Omega system. The technique utilizes a microstrip Chebyshev transformer without very wide line widths to obtain the match at a center frequency of 10.5 GHz with a bandwidth of 9 GHz, an insertion loss of less than 1.5 dB, and a reflection coefficient of better than -10 dB.

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