

Abstracts

Nonradiative Dielectric Waveguide T-Junctions for Millimeter-Wave Applications (Short Papers)

T. Yoneyama and S. Nishida. "Nonradiative Dielectric Waveguide T-Junctions for Millimeter-Wave Applications (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.11 (Nov. 1985 [T-MTT]): 1239-1241.

A high-performance T-junction has been fabricated based on the nonradiative dielectric waveguide. Widths of the main arm and subarm were determined experimentally. The T-junction was provided with a dielectric stub and thin-metal patches which proved to be effective matching elements in improving the performance. Well-balanced outputs in excess of -4 dB were obtained over a frequency range of 2 GHz at a center frequency of 35 GHz.

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