

Abstracts

Analysis and Design of Microslab™ Waveguide

B. Young and T. Itoh. "Analysis and Design of Microslab™ Waveguide." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 735-738.

Microslab/sup TM/, a novel low-loss semi-planar waveguide, is studied to provide design charts for the propagation constant and characteristic impedance. A parallel-plate analysis is performed to provide design guidelines based on frequency, conductor loss, and size. A mode-matching procedure is then used to build the design charts. Results are provided for microslab implementation on GaAs substrates.

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