

Abstracts

Quarter Wave Transformers for Matching Transitions Between Waveguides and Fin Lines

C.J. Verver and W.J.R. Hoefer. "Quarter Wave Transformers for Matching Transitions Between Waveguides and Fin Lines." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 417-419.

This paper presents closed-form expressions for the design of a quarter-wave transition-matching transformer. This structure takes the form of a notch or protrusion cut in the finline substrate at the waveguide-to-finline interface. Measurements show a 5 db improvement in return loss over a full waveguide band due to such a transformer.

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