

Abstracts

Millimeter Wave Printed Circuit Spurline Filters

C. Nguyen, C. Hsieh and D.W. Ball. "Millimeter Wave Printed Circuit Spurline Filters." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 98-100.

This paper provides a new equivalent circuit model for a spurline filter section in an inhomogeneous coupled-line medium whose even and odd mode phase velocities are unequal. This equivalent circuit permits the exact filter synthesis to be performed easily. Millimeter-wave filters at 26 to 40 GHz and 75 to 110 GHz have been fabricated using the model, and experimental results are included which validate the equivalent circuit model.

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