

Abstracts

Millimeter-Wave Diplexers with Printed Circuit Elements (Dec. 1985 [T-MTT])

Y.-C. Shih, L.Q. Bui and T. Itoh. "Millimeter-Wave Diplexers with Printed Circuit Elements (Dec. 1985 [T-MTT])." 1985 Transactions on Microwave Theory and Techniques 33.12 (Dec. 1985 [T-MTT] (1985 Symposium Issue)): 1465-1469.

A novel design of W-band (75-110 GHz) noncontiguous diplexers is described. The common port of the diplexer is fed by suspended probe transitions which are suitable for wide-band applications. The circuit is printed on a single substrate and easily assembled in a split-block housing. The measured insertion loss at the passbands is about 1 dB. The calculated frequency response of a diplexer is in good agreement with the measurement.

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