

Abstracts

Modified Broadside-Coupled Microstrip Lines Suitable for MIC and MMIC Applications and a New Class of Broadside-Coupled Band-Pass Filters

M. Tran and C. Nguyen. "Modified Broadside-Coupled Microstrip Lines Suitable for MIC and MMIC Applications and a New Class of Broadside-Coupled Band-Pass Filters." 1993 Transactions on Microwave Theory and Techniques 41.7 (Aug. 1993 [T-MTT]): 1336-1342.

Modified broadside-coupled microstrip lines, suitable for microwave and millimeter-wave integrated and monolithic integrated circuit (MIC and MMIC) applications requiring wide bandwidths and tight couplings, are presented. Their analysis, based on the quasi-static spectral domain technique, is described. Using these broadside structures, a new class of broadside-coupled band-pass filters has been developed at X-band (8- 12 GHz) with about 1-dB insertion loss. Fair agreement between the measured and calculated results has been observed even though a major approximation is used.

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