

Abstracts

A Broad-Band Model for a Coaxial-to-Stripline Transition

A.G. Chapman and C.S. Aitchison. "A Broad-Band Model for a Coaxial-to-Stripline Transition." 1980 Transactions on Microwave Theory and Techniques 28.2 (Feb. 1980 [T-MTT]): 130-135.

This paper investigates a significant source of error encountered when characterizing a circuit element embedded in a stripline circuit at microwave frequencies. The errors introduced by the coaxial-to-stripline transition are examined and a frequency-independent model is developed for the transition over the band 2-12 GHz. The usefulness of the model is demonstrated experimentally by measuring a known load consisting of a short length of high-impedance line terminated in a short circuit.

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