Abstracts

A Broad-Band Element for Microstrip Bias or Tuning Circuits (Short Papers)

B.A. Syrett. "A Broad-Band Element for Microstrip Bias or Tuning Circuits (Short Papers)." 1980 Transactions on Microwave Theory and Techniques 28.8 (Aug. 1980 [T-MTT]): 925-927.

A microstrip radial transmission line circuit element namely a 180° circular stub or "half-moon" structure, having a reflection coefficient of unity magnitude and phase which varies slowly with frequency is presented. Theoretical reflection coefficient data are shown to agree well with experimental microstrip (epsilon/sub r/=2.35, h =250 µm) data in X band. Applications of the half-moon microstrip element in the design of broad-band bias or tuning networks are discussed.

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