Abstracts

Maximum Q-Factor of Microstrip Resonators

A. Gopinath. "Maximum Q-Factor of Microstrip Resonators." 1981 Transactions on Microwave Theory and Techniques 29.2 (Feb. 1981 [T-MTT]): 128-131.

The quality factors of microstrip half-wavelength resonators have been calculated as a function of substrate thickness for frequencies in the range 8-96 GHz, for different epsilon/sub r/. Conductor, dielectric, and radiation losses have been included. The optimum substrate thickness for the maximum Q-factor for 50-omega microstrip resonators has been derived as a function of frequency for different dielectric constants.

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