

# Abstracts

## Quarter Wavelength Ceramic Comline Filters

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*H.-W. Yao, C. Wang and K.A. Zaki. "Quarter Wavelength Ceramic Comline Filters." 1996 Transactions on Microwave Theory and Techniques 44.12 (Dec. 1996, Part II [T-MTT] (1996 Symposium Issue)): 2673-2679.*

A rigorous method for analysis of coupled dielectric quarter wavelength comline resonators is presented. The resonant frequencies and coupling coefficients of the resonators coupled by different coupling structures are investigated. A filter design technique based on the results of numerical analysis is described. A slot coupled filter and a monoblock elliptic function filter are designed. Excellent experimental results verify the theory.

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