Abstracts

Dual-mode quasi-elliptic-function bandpass filters using ring resonators with enhanced-coupling tuning stubs

Lung-Hwa Hsieh and Kai Chang. "Dual-mode quasi-elliptic-function bandpass filters using ring resonators with enhanced-coupling tuning stubs." 2002 Transactions on Microwave Theory and Techniques 50.5 (May 2002 [T-MTT]): 1340-1345.

A novel microwave dual-mode quasi-elliptic-function bandpass filter structure has been designed and fabricated. The filter uses L-shaped coupling arms for enhanced coupling and dual-mode excitation. The effects of varying the length of tuning stubs and gap size between tuning stubs and ring resonator have been studied. Filters using multiple cascaded ring resonators with high rejection band are presented. The new filters have been verified by simulation and measurement with good agreement.

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