

Abstracts

Microwave Dielectric Resonator Filters Utilizing Ba₂Ti₉O₂₀ Ceramics

J.K. Plourde and D.F. Linn. "Microwave Dielectric Resonator Filters Utilizing Ba₂Ti₉O₂₀ Ceramics." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 290-293.

Dielectric resonators utilizing Ba₂Ti₉O₂₀ ceramic yield high Q's (Q = 8000-10000) along with excellent temperature stability ($T_{f/f} = 0-2 \text{ ppm/}^{\circ}\text{C}$) at 4 GHz. Integrable bandpass and bandreject filters having low losses and excellent temperature stability are obtained in structures containing Ba₂Ti₉O₂₀ resonators coupled to either stripline or waveguide.

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