

Abstracts

Microwave Dielectric Resonator Filters Utilizing Ba/sub 2/Ti/sub 9/O/sub 20/ Ceramics

J.K. Plourde and D.F. Linn. "Microwave Dielectric Resonator Filters Utilizing Ba/sub 2/Ti/sub 9/O/sub 20/ Ceramics." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 290-293.

Dielectric resonators utilizing Ba/sub 2/Ti/sub 9/O/sub 20/ ceramic yield high Q's (Q = 8000-10000) along with excellent temperature stability ($T/\text{sub } f/ = 0\text{-}2 \text{ ppm}/^{\circ}\text{C}$) at 4 GHz. Integrable bandpass and bandreject filters having low losses and excellent temperature stability are obtained in structures containing Ba/sub 2/Ti/sub 9/O/sub 20/ resonators coupled to either stripline or waveguide.

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