Abstracts

High-Dielectric Substrates for Microwave Hybrid Integrated Circuitry (Correspondence)

G.D. Vendelin. "High-Dielectric Substrates for Microwave Hybrid Integrated Circuitry (Correspondence)." 1967 Transactions on Microwave Theory and Techniques 15.12 (Dec. 1967 [T-MTT]): 750-752.

Microstrip transmission-line parameters of temperature-compensated titanium dioxide have heen measured. This material has a dielectric constant ranging from 25 to 100. The variations of microstrip wavelength, characteristic impedance, and attenuation with geometry and dielectric constant are in good agreement with the theory. This material is particularly attractive for microwave circuits because of the short guide wavelength and low attenuation.

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