

Abstracts

22-GHz Measurements of Dielectric Constants and Loss Tangents of Castable Dielectrics at Room and Cryogenic Temperatures (Short Papers)

R.W. Haas and P. Zimmermann. "22-GHz Measurements of Dielectric Constants and Loss Tangents of Castable Dielectrics at Room and Cryogenic Temperatures (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.11 (Nov. 1976 [T-MTT] (Special Issue on Millimeter Waves: Circuits, Components, and Systems)): 881-883.

The dielectric constants and loss tangents of a number of castable dielectrics such as different epoxies were measured at 22 GHz at both room temperature and 77 K using a resonant cavity technique. It was found that these high-frequency values differ significantly from published low-frequency values, and that the losses decrease dramatically at cryogenic temperatures.

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