Abstracts

Dispersion characteristics of microstrip transmission line on glass microwave IC's

N. Jain and B. Brown. "Dispersion characteristics of microstrip transmission line on glass microwave IC's." 1997 Microwave and Guided Wave Letters 7.10 (Oct. 1997 [MGWL]): 344-346.

Measurement of the effective dielectric constant of microstrip transmission line on glass for the frequency range of 5-35 GHz are presented. These measurements indicate that there is very little dispersion in 200-/spl mu/m-thick glass for frequencies up to 35 GHz. Further, electromagnetic analysis shows that the dielectric constant of glass changes from 4.05 to 4.00 when the frequency varies from 5 to 35 GHz, somewhat compensating for the dispersion.

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