Abstracts

1.5-GHz GaAs Surface Acoustic Wave Delay Lines (Short Papers)

R.T. Webster. "1.5-GHz GaAs Surface Acoustic Wave Delay Lines (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.9 (Sep. 1985 [T-MTT]): 824-827.

Surface acoustic wave (SAW) delay lines fabricated on commercially available (100) cut GaAs have been used to control oscillators at frequencies as high as 1.5 GHz. These high frequencies were obtained by operating at the second overtone of transducers with three electrodes per wavelength. A theoretical and experimental study of the temperature coefficient of frequency of SAW oscillators on GaAs was performed. Tables display the GaAs elastic constants and their temperature coefficients, as well as the experimental and theoretical surface acoustic wave propagation characteristics of selected GaAs orientations.

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