Abstracts

Use of Attenuation and Phase Delay Characteristics of SAW to Measure Air-Gap Height (Technical Notes)

J.D. Crowley, J.F. Weller and T.G. Giallorenzi. "Use of Attenuation and Phase Delay Characteristics of SAW to Measure Air-Gap Height (Technical Notes)." 1978 Transactions on Microwave Theory and Techniques 26.2 (Feb. 1978 [T-MTT]): 134-135.

The attenuation and phase delay characteristics of a SAW which has been perturbed by a metallic plane above the surface of a piezoelectric delay line have been theoretically computed and experimentally measured. These measurements provide a diagnostic tool for determining the height of an air gap and for determining the minimum achievable air gap for a particular supporting structure.

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