Abstracts

Broadband, Fixed Tuned, Acoustic Delay Lines at L and S Band Frequencies

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This paper is concerned with the design and development of broadband, fixed tuned, non-dispersive delay lines. These delay lines utilize multi-layer transducers incorporating C dS thin films of the type used by deKlerk, sapphire delay media, and suitable electrical matching networks in either coaxial or strip transmission lines. The design of two broadband units are presented which operate at center frequencies of 1.80 GHz and exhibit 50 db bandwidths of approximately 50% with midband loss of approximately 40 db. The experimental data for these units are found to be in good agreement with theoretical values.

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