Abstracts

Wide-Band Microwave Acoustic Delay Line with Exceptionally Smooth Phase and Loss Response (Correspondence)

W.R. Sperry, E.K. Kirchner and T.M. Reeder. "Wide-Band Microwave Acoustic Delay Line with Exceptionally Smooth Phase and Loss Response (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.12 (Dec. 1971 [T-MTT] (1971 Symposium Issue)): 945-947.

Design techniques for high-performance microwave delay lines which have superior bandwidth, phase linearity, and spurious echo characteristics are presented. Utilization of these techniques to realize a 4-μs L-band unit which has insertion loss of 30 ±0.5 dB over the 500-MHz band centered at 1.7 GHz, with triple-transit suppression greater than 45 dB and phase deviation from linearity of less than ±2.5°, is described.

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