Abstracts

Wideband Microwave Acoustic Delay Line with Exceptionally Smooth Phase and Loss Response

W.R. Sperry, E.K. Kirchner and T.M. Reeder. "Wideband Microwave Acoustic Delay Line with Exceptionally Smooth Phase and Loss Response." 1971 G-MTT International Microwave Symposium Digest of Technical Papers 71.1 (1971 [MWSYM]): 62-64.

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°, are described.

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