

Abstracts

C-Band Ultrasonic Delay Line Using Mode Conversion in YAG (Correspondence)

A.B. Smith. "C-Band Ultrasonic Delay Line Using Mode Conversion in YAG (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.10 (Oct. 1970 [T-MTT]): 733-734.

A delay line is described which uses longitudinal-to-shear wave conversion to achieve low acoustic loss in YAG with CdS transducers. This device provides 4 μ s of delay at 5 GHz with a 6-dB bandwidth of \sim 1.3 GHz and an insertion loss of \sim 65 dB.

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