Abstracts

The Effect of Beam Steering on the Design of Microwave Acoustic Surface Wave Devices

A.J. Slobodnik, Jr. and E.D. Conway. "The Effect of Beam Steering on the Design of Microwave Acoustic Surface Wave Devices." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 314-318.

The effect of beam steering on the design of microwave acoustic surface wave devices is investigated both theoretically and experimentally. Transducer, pure mode axis misalignment and misalignment of the propagation-plane perpendicular can both add significantly to delay line insertion loss. Beam steering losses are particularly high on Y-cut, Z-propagating LiNbO/sub 3/.

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