

Abstracts

Efficient Thin Film InSb/LiNbO₃/Convolver

K. Yamanouchi, S. Mitsui and K. Shibayama. "Efficient Thin Film InSb/LiNbO₃/Convolver." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 31-33.

A thin film InSb/LiNbO₃/acoustoelectric convolver has been successfully fabricated and operated at a center frequency of 100 MHz. The InSb is first deposited and then etched to the waveguide with the width of 1 mm. The Hall mobility and sigma h of the InSb with a thickness of about 500 Å are $\mu/\text{sub H}/=1041 \text{ cm}^2/\text{V dot sec}$ and sigma h = 34.3 μS , respectively. A convolution efficiency of -59 dBm was obtained experimentally.

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