

Abstracts

Tunable Band-Stop Filter Based on Epitaxial Fe Film on GaAs

V.S. Liao, T. Wong, W. Stacey, S. Ali and E. Schloemann. "Tunable Band-Stop Filter Based on Epitaxial Fe Film on GaAs." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 957-960.

Theoretical and experimental work on tunable band-stop filters based on single-crystal Fe films is reported. The filters can be tuned over a broad frequency range with a relatively small magnetic field. Theoretical predictions based on a parallel plate transmission line model agree qualitatively with the observations, but the measured attenuation per unit length is about 2.5 times smaller than predicted.

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