

Abstracts

Frequency Selective High Power YIG Limiters

S.N. Stitzer, H. Goldie and P.R. Emstage. "Frequency Selective High Power YIG Limiters." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 272-274.

This paper describes a bulk-type YIG limiter that provides narrow-band limiting for above-threshold microwave signals and simultaneously provides low loss transmission of below-threshold signals over a broad instantaneous bandwidth. Such a device has broad application as a frequency-selective receiver protector in FM/CW radars, for overload limiting in communication receivers, or as a replacement for the fixed filter in missile firing radars, thereby increasing frequency agility. A theoretically derived expression for selectivity bandwidth is found to agree well with experimental results.

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