

Abstracts

A Multi-Octave Frequency Selective Limiter

S.N. Stitzer and H. Goldie. "A Multi-Octave Frequency Selective Limiter." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 326-328.

A frequency selective limiter operating over more than 2 octaves bandwidth has been developed. The design uses single crystal ephaxial YIG films. Limiting threshold and leakage are about 1 milliwatt. Dynamic range approaches 20 dB. Selectivhy bandwidth for 3 dB weak signal compression is about \pm 20 MHz at 100 mW input. An analytical method gives accurate predictions of limiting behavior when linear loss terms are included.

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