Abstracts

UHF frequency selective limiters

J.D. Adam, S.N. Stitzer and R.M. Young. "UHF frequency selective limiters." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1173-1174 vol.2.

A frequency selective limiter, based on magnetostatic surface wave propagation in a GaScYIG film, is described. Small signal insertion loss was 10 dB and the threshold power level was -25 dBm over the 400 MHz to 800 MHz frequency range. Small signal attenuation and intermodulation products, resulting from the interaction between two signals, are only significant if the signals are less than 10 MHz apart. Similar devices are expected to be used to extend the dynamic range of broadband receivers.

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