Abstracts

A Reflection Type of MSW Signal-to-Noise Enhancer in the 400-MHz Band

T. Kuki and T. Nomoto. "A Reflection Type of MSW Signal-to-Noise Enhancer in the 400-MHz Band." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 111-114.

We have developed a reflection type of signal-to-noise enhancer operating in the 400-MHz, which can easily be inserted into the second IF stage used in current DBS receivers. The new enhancer consists of a microstrip line using a ceramic substrate with a high dielectric constant and a LaGa-YIG film with low saturation magnetization. Enhancement of 8 dB was achieved in the 40-MHz bandwidth. We evaluated the effect of the new enhancer on noise reduction in DBS reception and found that the signal-to-noise enhancer achieved 2 to 3-dB noise reduction.

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