

Abstracts

A Low-Loss Magnetostatic Wave Filter Using Parallel Strip Transducer

T. Nishikawa, K. Wakino, H. Tanaka, S. Shinmura and Y. Ishikawa. "A Low-Loss Magnetostatic Wave Filter Using Parallel Strip Transducer." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. 1 [MWSYM]): 153-156.

A new configuration for magnetostatic forward volume wave (MSFVW) filter has been proposed. Parallel strip transducers and metal disks on yttrium iron garnet (YIG) film were adopted. Expressions developed for the radiation impedance of transducers makes the design of these medium band-width filters possible. Insertion loss of 6 dB was achieved in the 0.7-5.2 GHz band, and 4 dB in the 2.8-3.9 GHz band.

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