Abstracts

New Edge-Guided Mode Isolator Using Ferromagnetic Resonance Absorption (1976 [MWSYM])

T. Noguchi and H. Katoh. "New Edge-Guided Mode Isolator Using Ferromagnetic Resonance Absorption (1976 [MWSYM])." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 251-253.

A new edge-guided (E.G.) mode isolator has been proposed, in which nonreciprocal attenuation is obtained with the ferromagnetic resonance absorption caused by a strong d.c. magnetic field applied locally at one side edge of the ferrite microstrip line. Dominant forward and backward E.G. modes, which show nonreciprocal resonance attenuation, have been proved theoretically. Besides, a practical E.G. mode resonance isolator, which has an octave bandwidth, has been successfully developed.

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