

Abstracts

Magnetically Tunable Stripline Y Circulator

T. Nagao and Z. Tanaka. "Magnetically Tunable Stripline Y Circulator." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1011-1014.

A stripline Y junction circulator loaded with TDC resonators achieved magnetically tunable operation in UHF. Its frequency band was wider than octave band, 0.4 to 1.1 GHz. Its constituent operation had a frequency band of less than 100 MHz, insertion losses were less than 1.5 dB, and isolation more than 25 dB. Experimental analysis of the magnetically tunable operation, and theoretical analysis of EM fields of resonant modes, eigenvalues, and perfect circulatory modes are presented.

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