

Abstracts

YIG Resonator Circuit with Isolator Property and its Application to Gunn Diode Oscillator (1978 [MWSYM])

F. Okada, K. Ohwi and Y. Yokochi. "YIG Resonator Circuit with Isolator Property and its Application to Gunn Diode Oscillator (1978 [MWSYM])." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 108-110.

This paper presents analysis and experiments of a newly developed YIG resonator circuit with isolator property, which is constructed with a YIG sphere, a 3 dB directional coupler and three coupling loops. The paper then goes on to describe experiments of a magnetically tunable Gunn diode oscillator with the YIG circuit. It has been confirmed that the YIG circuit applied to a tunable oscillator is useful in frequency pulling and in the variation of output power level.

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