

Abstracts

A 3.8 - 30.0 GHz YIG Oscillator - Theory and Design

M. Odyniec. "A 3.8 - 30.0 GHz YIG Oscillator - Theory and Design." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 157-160.

A YIG oscillator tunable over 3.8-30.GHz band has been developed. The aim of the paper is to analyze the oscillator and to discuss those of its properties which are critical for wide-band and high frequency performance. The paper consists of two parts: in the first one the methods of small signal analysis are used for wide-band design, the second part is focused on nonlinear properties of the oscillations.

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