Abstracts

Dependence of the Resonance Line-Width of Microwave Ferromagnetic Materials on Incident RF Power (Correspondence)

J.L. Carter, S. Dixon, Jr. and I. Reingold. "Dependence of the Resonance Line-Width of Microwave Ferromagnetic Materials on Incident RF Power (Correspondence)." 1961 Transactions on Microwave Theory and Techniques 9.2 (Mar. 1961 [T-MTT]): 195-197.

The intrinsic resonance linewidth of ferromagnetic materials is a key parameter in delineating the characteristics of these materials. Most of the published data concerning the resonance linewidth of ferrites and garnets are valid for small-signal conditions. However, Suhl's theory has indicated that the linewidth is dependent upon the RF peak power to which the material is subjected.

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