

Abstracts

The millimeter wave magneto-optics: new method for characterization of ferrites in the millimeter wave range

K.N. Kocharyan, M.N. Afsar and I.I. Tkachov. "The millimeter wave magneto-optics: new method for characterization of ferrites in the millimeter wave range." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1169-1172 vol.3.

This paper presents the application of the magneto-optical method for the first time in the millimeter wave range for the characterization of ferrites. The magneto-optical measurements were realized with a specially built millimeter wave spectrometer. Backward wave oscillators were used as a source of tunable coherent radiation. It is demonstrated that this new method is capable of generating accurate millimeter wave dielectric and magnetic data for any type of ferrite material.

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