

Abstracts

Pulsed Millimeter-Wave Generation Using Ferrites

B.J. Elliott, T. Schaug-Pettersen and H.J. Shaw. "Pulsed Millimeter-Wave Generation Using Ferrites." 1961 Transactions on Microwave Theory and Techniques 9.1 (Jan. 1961 [T-MTT]): 92-94.

A method is described for generating pulsed RF energy in the millimeter-wave spectrum. Low-loss garnets are used in the uniform precessional mode to store energy at S band and radiate at a higher frequency, which is controlled by the total magnetic field. Details are given of a K-band generator which operates at frequencies up to 32 kMc.

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