Abstracts

A Coincidence Region Power Limiter Using Monocrystal Lithium Ferrite at 6500 Mc/s

S. Okwit. "A Coincidence Region Power Limiter Using Monocrystal Lithium Ferrite at 6500 Mc/s." 1962 PGMTT National Symposium Program and Digest 62.1 (1962 [MWSYM]): 146-150.

Passive Microwave power limiters that use narrow linewidth ferrimagnetic materials such as YIG and gallium-substituted YIG operating in the coincidence region have been previously reported. However, these limiters have been restricted to operating in the L- and S-band ranges because of the low ferrite saturation magnetization (4piM/sub s/). Recently, monocrystal lithium ferrite having a 4piM/sub s/of 3900 and exhibiting relatively narrow line-width properties has become available. We have used this material in the development of a coincidence power limiter that operates in the 6500-Mc/s frequency range. (Independent work on coincidence limiting using lithium at 5200 Mc/s, has recently been reported by Rossol.)

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