

Abstracts

A New Semiconductor Microwave Modulator

H. Jacobs, F.A. Brand, M. Benanti, R. Benjamin and J. Meindl. "A New Semiconductor Microwave Modulator." 1960 Transactions on Microwave Theory and Techniques 8.5 (Sep. 1960 [T-MTT]): 553-559.

A new semiconductor device is proposed for use as an amplitude modulator for microwave transmission. The principle of action depends upon the increase of absorption with an increase of conductivity caused by the injection of excess minority carriers. Experiments conducted at 9600 Mc indicate little or no phase and frequency modulation. The mechanism of the modulation action and the device design are discussed here.

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