

# Abstracts

## The P-I-N Modulator, an Electrically Controlled Attenuator for MM and Sub-MM Waves

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*F.C. de Ronde, H.J.G. Meyer and O.W. Memelink. "The P-I-N Modulator, an Electrically Controlled Attenuator for MM and Sub-MM Waves." 1960 Transactions on Microwave Theory and Techniques 8.3 (May 1960 [T-MTT]): 325-327.*

The construction and performance of a millimeter wave modulator are described. The main part of the modulator consists of a p-i-n germanium structure inserted into a rectangular waveguide. A modulation depth of 11 db could be obtained at frequencies up to 5 kc, this modulation being caused for the greatest part by attenuation.

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