

Abstracts

On the Harmonic Operation of Millimeterwave Gunn Diodes

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The behavior of GaAs Gunn diodes having epitaxial layer thicknesses of the order of 2 μm has been investigated. A coaxial (radial disc) bias circuit provides a resonant circuit at the fundamental operating frequency of the diode (30-50 GHz). The circuit can be tuned over a wide frequency range by various means. The harmonic components have been measured up to 110 GHz.

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