

Abstracts

High Pulse Energy F-Band TRAPATT Diode Amplifiers

*J.H. Bowen, M.E. Breese, V.A. Mikenas, A. Schwarzmann, M. Weiss, S.G. Liu and H. Sobol.
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Design considerations in building high-power wide-pulse-width TRAPATT diode amplifiers are outlined. Diode characteristics, package parasitics, and circuit impedance levels are discussed. Analytical and experimental investigations of the transient thermal behavior of TRAPATT diodes are presented. Performance characteristics of several MIC alumina substrate amplifiers are described.

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