

# Abstracts

## High-Power TRAPATT Oscillations from Parallel-Connected Low-Cost Diodes (Correspondence)

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R.J. Chaffin. "High-Power TRAPATT Oscillations from Parallel-Connected Low-Cost Diodes (Correspondence)." 1970 *Transactions on Microwave Theory and Techniques* 18.11 (Nov. 1970 [T-MTT] (Special Issue on Microwave Circuit Aspects of Avalanche-Diode and Transferred Electron Devices)): 985-986.

This paper reports successful parallel TRAPATT operation of a very low-cost commercial diode type. The best result achieved was a pulsed output of 225 watts at 700 MHz with an efficiency of 33 percent. The result was achieved by using three diodes in parallel. An explanation of the success of parallel operation is given. It is also shown that precise control of breakdown voltage is not necessarily required for parallel TRAPATT operation.

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