

Abstracts

Experimental Study of Series Connected TRAPATT Diodes (Short Papers)

K. Gleason, C.T. Rucker, N.W. Cox, A.C. Macpherson and E.D. Cohen. "Experimental Study of Series Connected TRAPATT Diodes (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.8 (Aug. 1974 [T-MTT]): 804-806.

The results of experiments using TRAPATT diodes connected in series at 0.5, 2, and 8 GHz are described. These experiments demonstrate that successful series operation of TRAPATT's at frequencies up to at least 2 GHz can be achieved in a configuration suitable for long pulsewidth or CW operation. An 8-GHz operation of series stacked TRAPATT'S yielded high power outputs at the same efficiency achieved with single devices but no well heat sunk configuration was found that yielded good efficiency.

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