Abstracts

An Array of Pulsed X-Band Microstrip Gunn Diode Transmitters with Temperature Stabilization

M.P. Wasse and E. Denison. "An Array of Pulsed X-Band Microstrip Gunn Diode Transmitters with Temperature Stabilization." 1971 Transactions on Microwave Theory and Techniques 19.7 (Jul. 1971 [T-MTT] (Special Issue on Microwave Integrated Circuits)): 616-622.

The construction of pulsed microstrip Gunn diode transmitters which deliver 5-10 W at 9.4 GHz is described. The oscillators are designed to be used as injection locked elements in a simple phased array system; the necessary phase stability against ambient and in-pulse temperature change being achieved by suitably biasing a varactor diode. Details of the design and performance of the transmitter and its component parts are presented together with preliminary data on a small array.

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