

# Abstracts

## X-Band 50W High Stability Gunn Pulsed Sources

Z.-Q. Huang and W. Feng. "X-Band 50W High Stability Gunn Pulsed Sources." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 949-952.

A Circuit structure readily adapted to combine power of several pulsed diode is presented. Herein the diodes have been mounted to stack up a "Diodes Chain" in full high WG. This approach do not suffer from the multiple-mode in order the diodes being in series along a same axis with electric field. This method make a feature of high active impedance, minor RF current, low loss and high Qex as a result. High peak power and excellent frequency stability have been achieved. 50W of peak power was measured from two-diode pulsed Gunn, the frequency stability about 1 - 2ppm/°C and power's 0.01dB/°C for a -20 to +60°C may be one of the best performance published so far.

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