

Abstracts

A Periodic Planar Gunn Diode Power Combining Oscillator (Short Papers)

A. Mortazawi and T. Itoh. "A Periodic Planar Gunn Diode Power Combining Oscillator (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.1 (Jan. 1990 [T-MTT]): 86-87.

Several planar periodic power combining oscillators containing two to six Gunn diodes operating in the X-band are designed and fabricated. The maximum power combining efficiency, 126.7 percent, is obtained from the three-diode oscillator. Injection locking is maintained over a large variation of the bias voltage.

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