

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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