

Abstracts

A 1 watt, 38 GHz monolithic grid oscillator

B. Deckman, D. Rutledge, J.J. Rosenberg, E. Sovero and D.S. Deakin, Jr.. "A 1 watt, 38 GHz monolithic grid oscillator." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1843-1845 vol.3.

We have demonstrated a monolithic grid oscillator that shows 1 watt of effective transmitter power at 38 GHz. Use of a wire twist reflector as an external feedback element added to a successful monolithic grid amplifier allows a tuning range from 37.5 GHz to 41 GHz. Impedance matching is accomplished by a double-slug tuner and the movable back-short of the twist reflector.

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