

Abstracts

Millimeter-Wave Microstrip Oscillators

B.S. Glance and M.V. Schneider. "Millimeter-Wave Microstrip Oscillators." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 188-190.

Hybrid integrated millimeter-wave sources at 30, 60 and 100 GHz have been built using a novel oscillator configuration. The new structure features a planar microstrip circuit in a conducting channel with an IMPATT diode which is inserted into the side wall of the channel RF efficiencies of 5% at an output power of a quarter watt CW have been measured both at 30 and 60 GHz. The output power at 100 GHz is 25 mW with an efficiency of 2%. The oscillators can be readily tuned over a 10% bandwidth.

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