

Watt-Level Millimeter-Wave Monolithic Diode-Grid Frequency Multipliers

R.J. Hwu, C.F. Jou, W.W. Lam, U. Lieneweg, D.C. Streit, N.C. Luhmann, Jr., J. Maserjian and D.B. Rutledge. "Watt-Level Millimeter-Wave Monolithic Diode-Grid Frequency Multipliers." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. 1 [MWSYM]): 533-536.

Monolithic planar arrays containing in excess of 1000 Schottky diodes have produced watt level output at 66 GHz in a doubler configuration in excellent agreement with large signal predictions of the frequency multiplication. Current efforts are concentrated on fabricating and developing arrays of novel barrier-intrinsic-N/sup +/- (BIN) diode which promise increased performance in tripler and quintuple configurations.

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