

Abstracts

High Efficiency Submillimeter Frequency Multipliers

N. Erickson. "High Efficiency Submillimeter Frequency Multipliers." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1301-1304.

Solid state sources have been developed for 330 and 500 GHz using cascaded varactor multipliers driven by a Gunn oscillator. The 330 GHz source uses a cascade of two balanced doublers achieving very high efficiency, and produces an output of 4mW. The 500 GHz source uses a cascade of a balanced doubler and single diode tripler and produces 0.7 mW.

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