Abstracts

Submillimeter-wave sideband generation using a planar diode array

D.S. Kurtz, J.L. Hesler, J.B. Hacker, T.W. Crowe, D.B. Rutledge and R.M. Weikle, II. "Submillimeter-wave sideband generation using a planar diode array." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1903-1906.

A 36 element array of planar Schottky diodes is used to mix the output of a CO/sub 2/ pumped far infrared laser with a 1-20 GHz microwave source to generate tunable sidebands at 1.6 THz. The double sideband power was measured by heterodyne detection with a 1T23 corner cube Schottky diode for a calculated output power of 5.9 /spl mu/W with a 28 dB conversion loss.

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