Abstracts

Optical millimeter wave generation utilizing a subharmonic reference

T. Berceli, S. Kudszus, M. Schlechtweg, A. Zolomy, G. Jaro, T. Marozsak and E. Udvary. "Optical millimeter wave generation utilizing a subharmonic reference." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1749-1752.

New methods for optical millimeter wave generation are presented. They apply a harmonic oscillator stabilized to an optically transmitted subharmonic reference signal by a frequency division PLL. A 94 GHz signal was generated using both injection and phase locking techniques. The new approaches utilize inexpensive photonic components and exhibit low sensitivity to the fiber dispersion.

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