Abstracts

30 GHz microstrip HEMT oscillator using indirect optical injection locking

X. Wang, N.J. Gomes, L. Gomez-Rojas, P.A. Davies and D. Wake. "30 GHz microstrip HEMT oscillator using indirect optical injection locking." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1753-1756.

A 30 GHz oscillator using indirect optical injection locking and operating with long-wavelength (1550 nm) optical signals has been designed and fabricated for the first time. A maximum millimeter-wave power of 5.3 dBm is reported. Initial results show a 650 kHz locking range.

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