Abstracts

Fibre-integrated heterodyne optical injection phase-lock loop for optical generation of millimetre-wave carriers

L.A. Johansson and A.J. Seeds. "Fibre-integrated heterodyne optical injection phase-lock loop for optical generation of millimetre-wave carriers." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1737-1740.

We report the first experimental demonstration of millimetre-wave modulated optical signal generation by an optical injection phase-lock loop. A 36 GHz signal was generated with low phase noise, -90 dBc/Hz at 10 kHz offset, and a locking range exceeding 30 GHz.

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