

Abstracts

Data transmission using an optical microwave link for wireless communications

P. Descamps, J. Vindevoghel, E. Vestiel and J.P. Vilcot. "Data transmission using an optical microwave link for wireless communications." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1261-1264.

This work reports on an optical radiofrequency link based on a direct optical injection locking of a microwave oscillator. A free running oscillator at 2.4 GHz has been designed and realised employing a pseudomorphic GaAlAs/GaInAs/GaAs self-aligned Heterostructure Insulating Gate Field Effect Transistor (HIGFET). Data transmissions using digital modulation formats have been performed. All the measurements revealed the high quality of the transmission.

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