

Data transmission using an optical microwave link for wireless communications

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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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