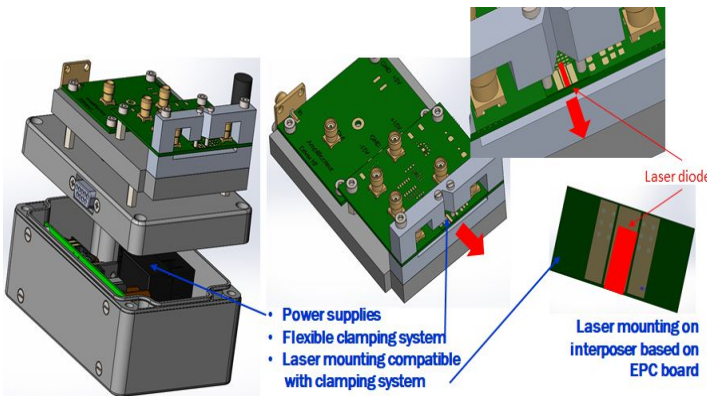




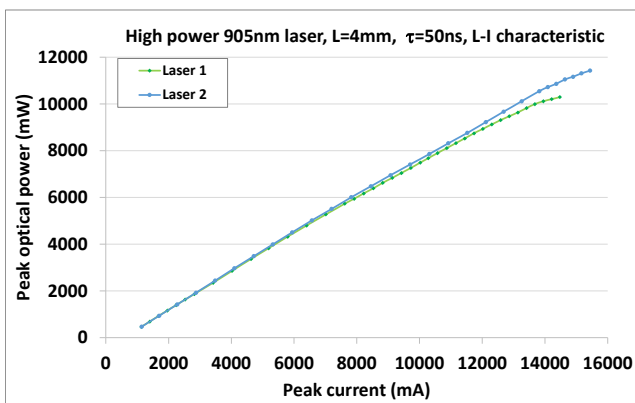
HIGH POWER LASER AND DRIVER

« SELLING » STATEMENT:

Performing 905nm high power laser under short pulse operation



Driver and laser on its interposer



L-I characteristic under short pulse operation

KEY FEATURES

Solved challenges

High optical power, high beam quality laser diodes emitting at 905nm.
Driver delivering high currents in short pulses
Compatibility between laser and driver.

Achieved results

Laser structure with a single quantum well and Aluminium free active region for emission at 905nm.
Driver delivering up to 20A in short pulse.
Laser with more than 10W optical power under short pulse operation (10ns-50ns).

Exploitation

Expected value chain between III-V Lab and LETI: laser+OPA+drivers would be a unique transmitter for LIDARs
Small to medium volume of production offered by III-V Lab
Licencing to external foundry needed for larger production (automotive)

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