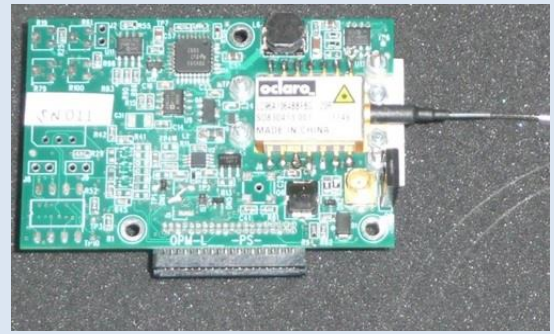


Seed Laser / Optical pulser Assembly

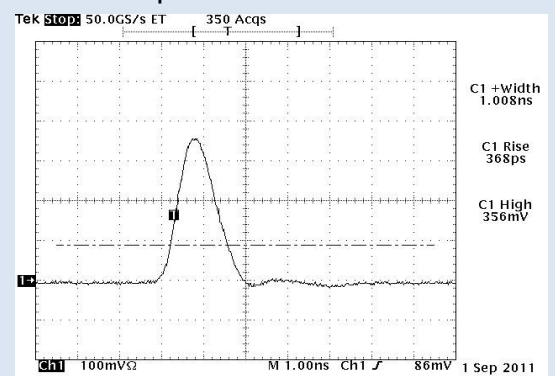
Features

- All seeder's functions integrated in one assembly:
 - Adjustable pulse generator
 - Pulse driver
 - Efficient TEC controller
 - Laser diode
- Designed for OEM
- Variety of product versions with pulse-width from 10's of pico-seconds to micro-seconds
- Peak current adjustable to 3A / Optical peak power over 1W
- Bias current control
- Compliance voltage up to 30V
- On board or external controls
- Single 5VDC power supply option
- Wide selection of laser diodes and LEDs
- Monitors for all key parameters
- An evaluation board is available for easy start

Product photo



Optical waveform 1ns



Description

The OPM-LDa series seed laser assembly is an integrated solution for the seed (oscillator) part of pulsed MOPA fiber lasers systems. The assembly includes all the key functions needed in a high performance seeder, including an adjustable pulse generator, laser driver, TEC controller and an integrated laser diode. We offer a wide range of alternatives and options:

- Programmable pulse generator with options to cover the pulse-width range of 10's of pico-seconds to microseconds.
- Adjustable peak current up to 3A
- On board calibrations for all key parameters
- TEC driver to drive thermo electric coolers that are integrated in common laser modules
- On board variable power supply for higher compliance voltage and improved pulse response
- A wide range of laser diodes and LEDs with butterfly, DIL14, coaxial or non-pigtailed packages

The product is designed to operate in a wide temperature range and in maintenance-free conditions – making it a good choice for integration in laser systems for industrial, bio/medical and military applications.

Product applications

- Seed Laser for Fiber Lasers
- Optical pulser for LRF or LIDAR target simulators
- Time domain fluorescence microscopy
- Characterization of high speed optical receivers