

Analog pulse laser diode driver

Pulse Driver – PCB board



Model no.: PSLD-A

Description

The PSLD-A is a board level analog pulse laser diode driver, ideal for driving 14 pin butterfly packaged laser diode modules with TEC. The PSLD-A includes TEC controller and a bias level with a constant current driver for applying bias current to the laser diode.

Specifications

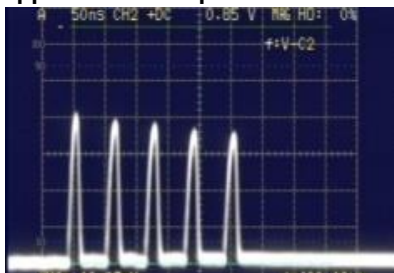
Parameter	Specification	Unit
Pulse width	5 – 500	ns
Pulse repetition frequency	Single-shot to 500	kHz
Modulation voltage	0 – 2	V
Pulse current	0 – 1.5	A
Bias current	0 – 100	mA
TEC current	-1.2 – 1.2	A

Standard compatible 14-pin butterfly packaged pin out (laser not included)

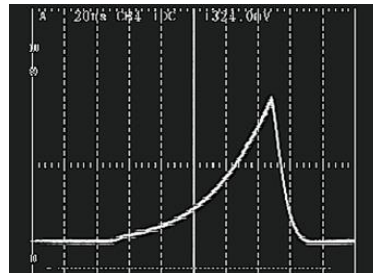
Pin	Description	Pin	Description
1	Peltier cooler (+)	8	NC
2	Thermistor	9	NC
3	Monitor anode	10	Laser anode
4	Monitor cathode	11	Laser cathode
5	Thermistor , connected to GND on board	12	NC
6	NC	13	GND
7	NC	14	Peltier cooler (-)

* compatibility with other laser pinout configurations also available

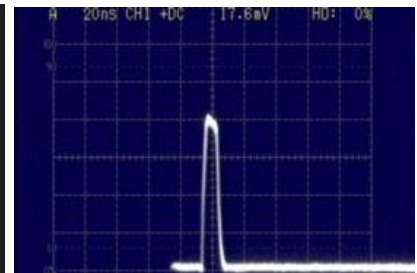
Application examples



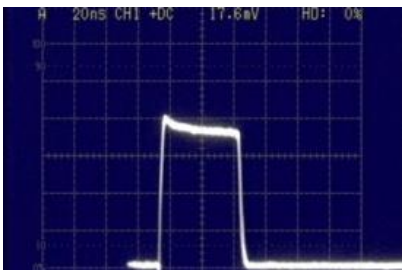
Burst of 10ns pulses



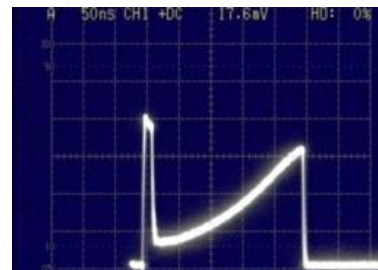
Predistorted 100ns pulse



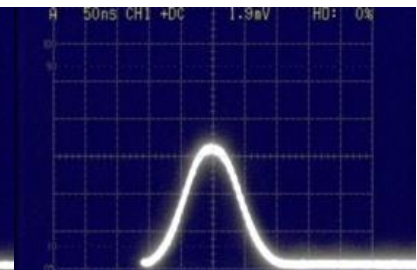
5ns pulse



50ns rectangular pulse



Multi-predistorted 250ns pulse



Gaussian 100ns pulse