Innolume GmbH
Konrad-Adenauer-Allee 11, 44263 Dortmund/Germany
Phone: +49 231 47730 200; Web: www.innolume.com

LDD-14pin-2A-GS

Picosecond Laser Diode Driver

Features:

- Current range up to 2A
- 60 ps optical pulse duration (DFB laser)
- On-board TEC controller
- USB/RS 232/CAN INTERFACES
- LabView compatible

Application:

- Fiber Laser seeding
- LIDAR in automotive
- Laser driver for RnD labs

Specification DATE: 17th June 2019

SPECIFICATIONS

Parameters	Symb.	Min.	Typ.	Max.	Unit
Pulse current amplitude	I_{amp}	0		2	A
Compliance voltage	V_c			3	V
Pulse repetition rate	F	single shot		10	MHz
Trigger in (50Ohm impedance)	V_{in}	3		5	V
Trigger out (50Ohm impedance)	V_{out}		3.3		V
Chip temperature	T_{op}	15	25	55	°C
External power (voltage)	V	4.75	5	5.25	V
External power (current)	I		0.3	1	A
Dimensions		80x85x21			mm

CONNECTIONS

Power	2 pin Terminal Block
Trigger	SMA Jack
Interface	MINI USB, TYPE B

ABSOLUTE MAXIMUM RATINGS

Parameters	Min.	Max.	Unit
LD forward current (Pulse)		2	A
TEC current		1	A
TEC voltage		4	V

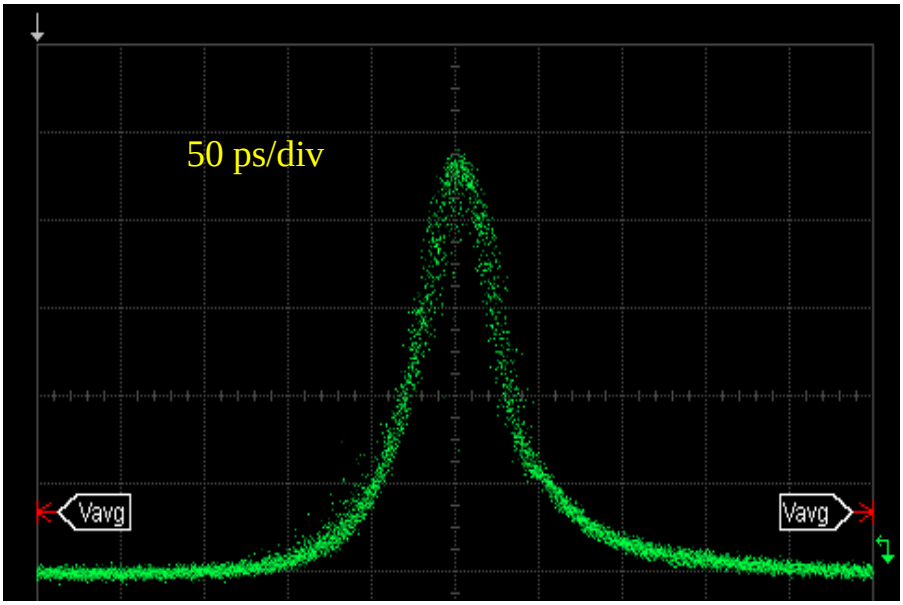
Innolume GmbH
Konrad-Adenauer-Allee 11, 44263 Dortmund/Germany
Phone: +49 231 47730 200; Web: www.innolume.com

TYPICAL PERFORMANCE for reference only

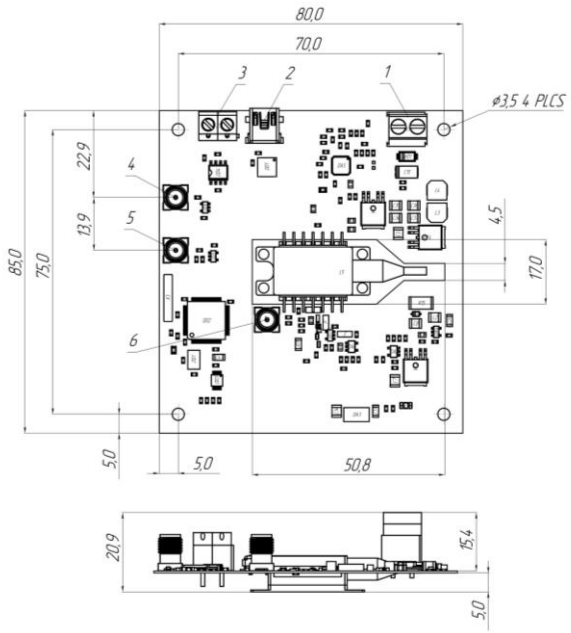
Test conditions: DFB-1064-PM-300 laser diode, case temperature 25°C.

Pulse shape

Triggered by splitted optical signal; 50ps/div



DIMENSIONS (All sizes are given in mm)



Connectors identification:

1. Power (+5V)
2. USB
3. CAN
4. Trigger out
5. Trigger in

NOTE: Innolume product specifications are subject to change without notice.