


LDD-14pin-2A-GS Picosecond Laser Diode Driver	
	<p>Features:</p> <ul style="list-style-type: none"> • Current range up to 2A • 60 ps optical pulse duration (DFB laser) • On-board TEC controller • USB/CAN INTERFACES (by default) or RS 232/CAN INTERFACES • LabView compatible <p>Application:</p> <ul style="list-style-type: none"> • Fiber Laser seeding • LIDAR in automotive • Laser driver for RnD labs
Specification	DATE: 24 th March 2020

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

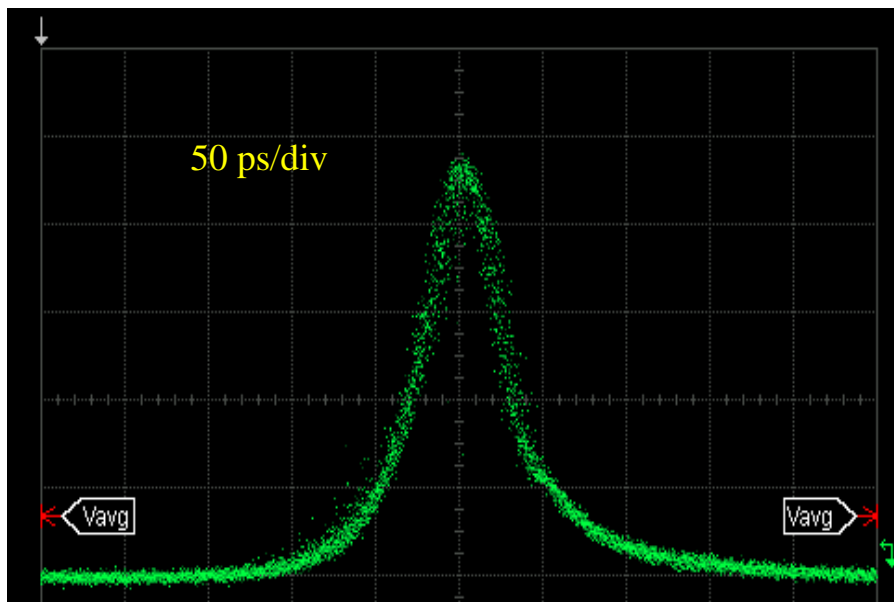
ABSOLUTE MAXIMUM RATINGS			
Parameters	Min.	Max.	Unit
LD forward current (Pulse)		2	A
TEC current		1	A
TEC voltage		4	V

TYPICAL PERFORMANCE for reference only

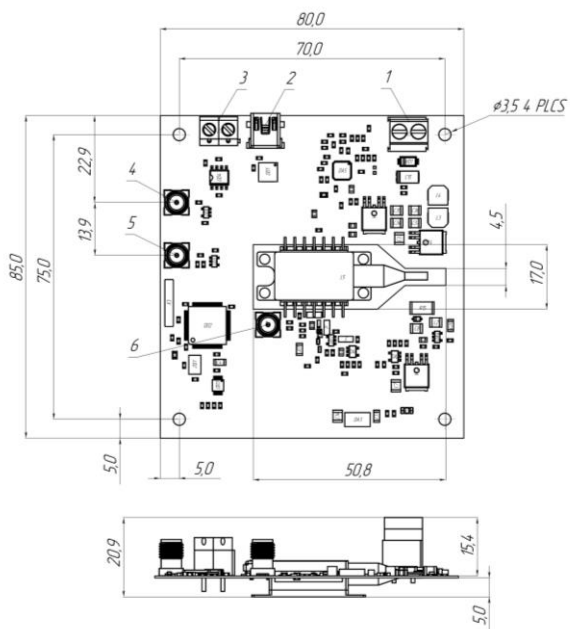
Test conditions: DFB-1064-PM-300 laser diode, case temperature 25°C.

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.