

ROF-N/S Butterfly laser driver module

ROF-N/S type butterfly laser driver module is designed for butterfly semiconductor devices (butterfly lasers, SOA, single-mode pumped lasers). It integrates laser diode driving and TEC control internally, and simultaneously achieves constant current driving and temperature control. It features high current accuracy, good constant current characteristics, stable temperature, and strong anti-interference ability. It is highly suitable for use in laboratories, research institutions, etc.

Features

- Standard butterfly-shaped fixtures are provided to facilitate the replacement of lasers of different models
- Equipped with a 3.5-inch high-definition touch screen, the interface is simple and beautiful
- High current accuracy and good constant current characteristics
- The TEC control is stable



Application

- 14-pin butterfly laser drive
- 10-pin laser driver
- SOA laser drive

Parameter

Parameter	SYM	Min	Typ	Max	Unit
Output current range (adjustable)		0	1000	2000	mA
Current regulation resolution		1			mA
Maximum current range		0	1000	2000	mA
output voltage		>3(adaptive)			V
TEC temperature range (adjustable)		19	25	32	° C
TEC adjusts resolution		0.1			° C
TEC refrigeration voltage		3			V
TEC refrigeration current		-3		3	A
Specifications		module			
Dimensions L x W x H		130×133×47 mm			
Working Voltage		DC+12V			
Maximum operating		2A			

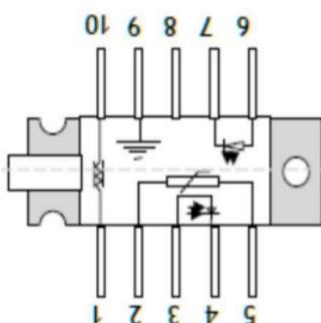


current		
LCD (Liquid Crystal Display)		3.5 寸

Extreme conditions

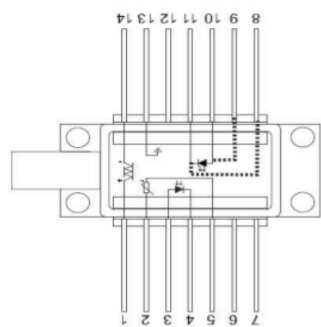
Parameter	SYM	Min	Typ	Max	SYM
Operating Temperature	Top	°C	-5		55
Storage temperature	Tst	°C	-40		85
humidity	RH	%	5		90

Typical laser pin types



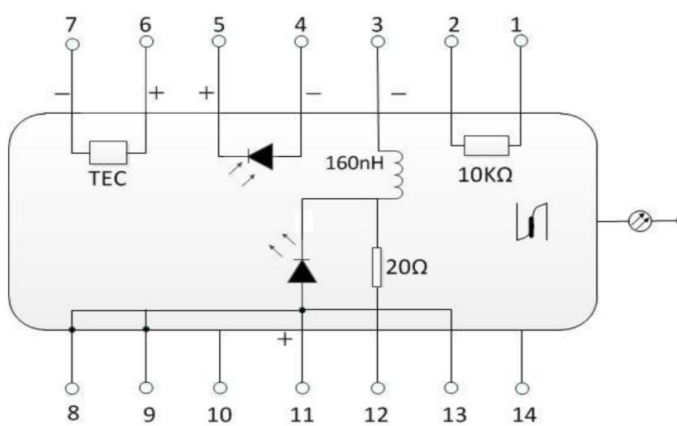
Pin	Description	Pin	Description
1	TEC (+)	6	Laser anode (+)
2	Thermistor	7	Laser cathode (-)
3	Monitor anode (-)	8	NC
4	Monitor cathode (+)	9	Package ground
5	Thermistor	10	TEC (-)

Definition of N-type 10PIN pins



Pin	Description	Pin	Description
1	Peltier cooler (+)	8	Not connected
2	Thermistor	9	Not connected
3	Monitor anode (-)	10	Laser anode (+)
4	Monitor cathode (+)	11	Laser cathode (-)
5	Thermistor	12	Not connected
6	Not connected	13	Case ground
7	Not connected	14	Peltier cooler (-)

Definition of N-type 14PIN pins



1	Thermistor
2	Thermistor
3	Laser dc Bias (Cathode) (-)
4	Back-facet Monitor Anode (-)
5	Back-facet Monitor Cathode (+)
6	Thermoelectric Cooler (+)
7	Thermoelectric Cooler (-)
8	Case Ground
9	Case Ground
10	NC
11	Laser Anode (+),Case Ground
12	Laser RF Cathode (-)
13	Laser Anode (+),Case Ground
14	NC

Definition of S-type 14PIN pins

Order Information

ROF		X	XX	X
	Laser driver module	Laser model: N -- N type laser driver S-S-type laser driver	Output current: 0.5---500mA 1.0---1000mA 2.0---2000mA	Encapsulation type: M - Module

*Please contact our sales personnel for specific indicators

Structural dimensions (mm)

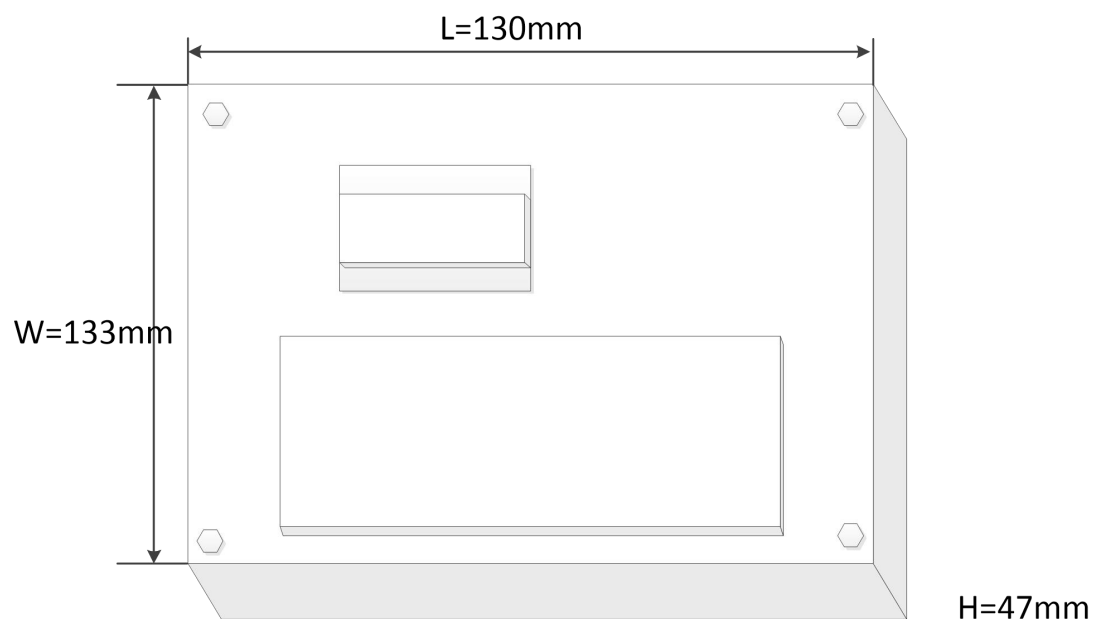


Figure 1 Mechanical dimension diagram of butterfly laser drive module