

OEM Laser Diode Control and Mount Module

LDC-100

Configurable up to 75 Amps Current and up to 48V Compliance Voltage

Integrated 192 Watt TEC Controller

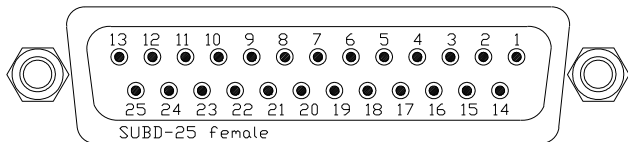
Cooled Heat Sink and Mounting Plate Customized for your Laser Diode Package

Standard Models for nLIGHT, LUMICs, Jenoptik, QPC and COHERENT Laser Diodes

Custom Mounting Plates Available



Support Connector - Isolated Industrial Interface



Sub-D25 female Type as seen from backside
 isolated RS485 or USB optional

PIN.No	Abbr.	Function
1	XO_ILOCK	Interlock Output max. 12V 100mA
2	XO_LON	Laser On - TTL- Output High = Laser On (pull-up resistor at 5V with 270R for LED f.e.)
3	XO_SYSOK	System Ok - TTL-Output High = Laser, Temp. & System OK (pull-up resistor at 5V with 270R)
5	X5VREF	External Reference 5V +-1% max. 20mA - as potentiometer supply f.e.
6	XSUP-12	External Supply Output -12V max. 250mA for free usage
7	XSUP+12	External Supply Output+12V max. 250mA for free usage
8	XSUP5V	External Supply Output 5V max. 250mA for free usage
9	XI_MODE0	TTL-Input - multipurpose mode select input
10	XI_MODE1	TTL-Input - multipurpose mode select input
11	XI_LaserOff	TTL-Input - Laser ON - TTL-Low = Laser On - internally pulled up
12	optional SUP_FAN	Universal Supply - 2V..22V up to 800mA for external Fan etc. (! not isolated)
13	optional SUP_GND	Universal Supply GND (! not isolated)
14	XI_ILOCK	Interlock Input - has to be connected to XO_ILOCK
15	MOD_DMOD	Modulation Digital Input TTL
16	MOD_GND	Modulation GND
17	MOD_ANALOG	Modulation Analog Input 0-4V → 0A-I _{max} (R _i =10kOhm for 0-10V signal put 15kOhm in series)
18	XTX	RS232-Tx
19	XRX	RS232-Rx
20,21	XGND	Xternal GND
4,22,23,24,25	n.c.	Reserved pins, do not connect!

