

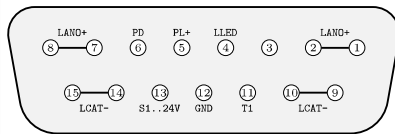
Tabletop Laser & Peltier Controller

Type: ls11-la15v48-t9519-v0-834



- Laser max.: 15A - 48V
- trise-tfall < 25us (optional < 5us)
- Supply Voltage: 100~230VAC - 50/60Hz
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Continuous Pulses, Single Pulse, Pulse Bursts, Internal or External Triggered
- Bias Current option
- Pilot Laser Supply
- External Supply max. 1..22V - 800mA for Fan etc.
- Photo Diode Current max. 4mA
- optional additional TEC-stages

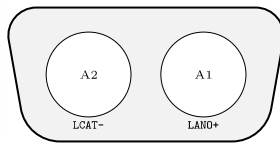
Laser Connector



SubD15-female

PIN.No	Abbr.	Function
1;2;7;8	LANO+	Laser Diode Anode (+)
4	LLED	Laser Active LED - Anode (+), ILED ca.5mA, vs. GND
5	PL+	Pilot Laser (+), vs. GND
6	PD	Photo Diode Cathode (-), vs. GND
9;10;14;15	LCAT-	Laser Diode Kathode (-)
11	T1	Temperature Sensor 1 Input, default NTC10kΩ , vs. GND
12	GND	Common Ground
13	S1..24V	1 bis 24V Supply, max. 800mA, vs. GND, supports fan etc.

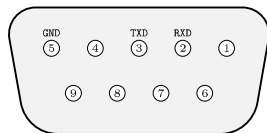
Laser Connector



SubD2W2-female

PIN. No	Abbr.	Function
A1	LANO+	Laser Diode Anode (+)
A2	LCAT-	Laser Diode Cathode (-)

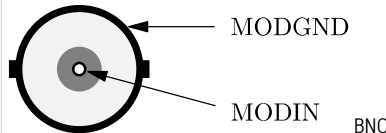
RS232 Connector



SubD-9, female

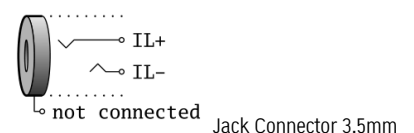
Standard RS232-Connector connected to PC 9600-Baud-8N1(No Null-Modem Cable !)

AMOD/DMOD Connector



Input-Impdanz 10kOhm
Digital Modulation with TTL-Pegel
Analog Modulation 0-4[V] => 0-Imax[A]

Interlock Connector



Interlock - Laser runs only if closed (ca. 5mA over 2V -> R_{Interlock} <=400R)

Tabletop Laser & Peltier Controller

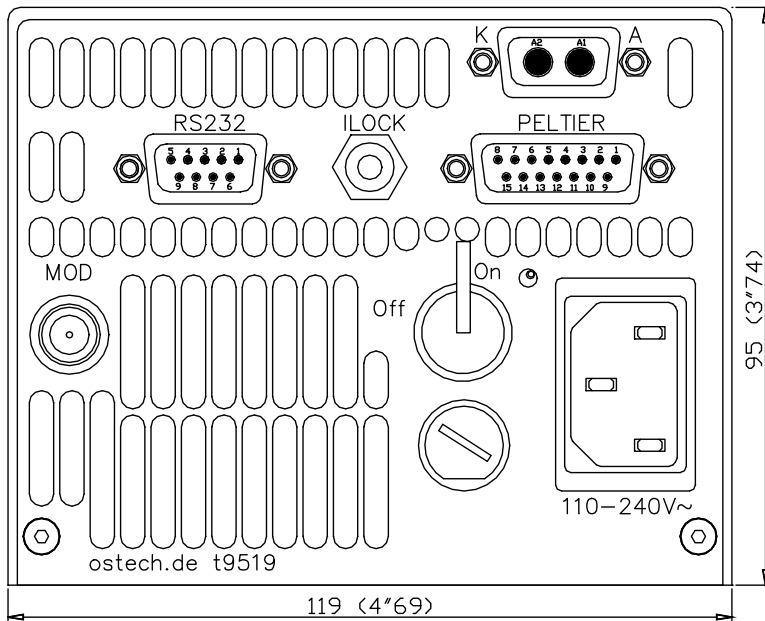


fig: ds01-Rear length 280mm (11")

Rrevision overview:

- 2013.10.10: "v0" - base derivation in ds11-t95 series
- 2014.03.09: "v1" - max. voltage increased to 24V
- 2015.09.15: "v2" - additional standard 2W2 socket for the laser
- 2016.05.19: "v3" - temp. sensor interface to 1 pin version changed, max. photo current increased to 4mA
- 2018.03.01: "v4" - additional laser current support over SubD15 socket

References:

- <http://www.ostech.de/en/products/laser-drivers/ds11-t95>
- <http://www.ostech.de/en/downloads/manuals/ds-en.pdf>
- <http://www.ostech.de/en/downloads/labview>

Accessories

- acc-converter-usb-to-rs232-1m5-iso-417
RS232 to USB converter optical isolated with FTDI-Chip cable 1.5m
- kab-lpa08-16pol-subd15m-oe-1.5m-39
cable 16x0.35qmm / subd15-Gold-6,5A per pin to open end / length-1m5
- kab-la40-2pol-2W2male-oe-1.5m-286
cable 2x4qmm / imax-40A subd-2W2m-male to open-ends / length-1m5