

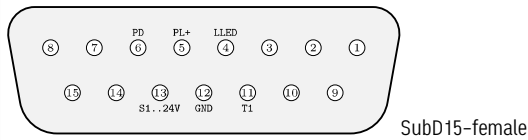
Tabletop Laser & Peltier Controller

Type: ls11-la50v05-t9524-v1-602



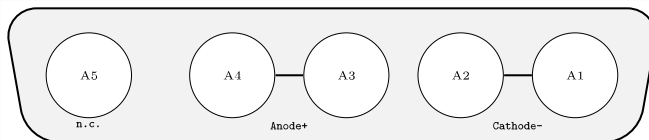
- Laser max.: 50A - 5V
- trise-tfall < 25us (optional < 5us)
- Supply Voltage: 100~230VAC - 50/60Hz
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Continuous Pulses, Single Pulse, Pulse Bursts,
- Internal or External Triggered
- Bias Current option
- Pilot Laser Supply
- External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

Laser Connector

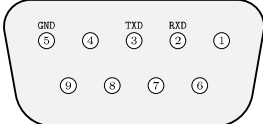
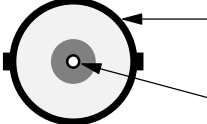
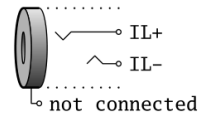


PIN.No	Abbr.	Function
4	LLED	Laser Active LED - Anode (+), ILED ca.5mA, vs. GND
5	PL+	Pilot Laser (+), vs. GND
6	PD	Photo Diode Cathode (-), vs. GND
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, vs. GND
12	GND	Common Ground
13	S1..24V	1 bis 22V Supply, max. 800mA, vs. GND, supports fan etc.

Laser Connector



PIN.No	Abbr.	Function
A3; A4	LANO+	Laser Diode Anode (+)
A1; A2	LCAT-	Laser Diode Cathode (-)
A5	n.c.	

RS232 Connector	AMOD/DMOD Connector	Interlock Connector
 <p>SubD-9, female</p>	 <p>MODGND MODIN BNC</p>	 <p>IL+ IL- not connected Jack Connector 3.5mm</p>
Standard RS232-Connector connected to PC 9600-Baud-8N1 (No Null-Modem Cable !)	Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Modulation 0-4[V] => 0-Imax[A]	Interlock - Laser runs only if closed (ca. 5mA over 2V -> R _{Interlock} <=400R)

Tabletop Laser & Peltier Controller

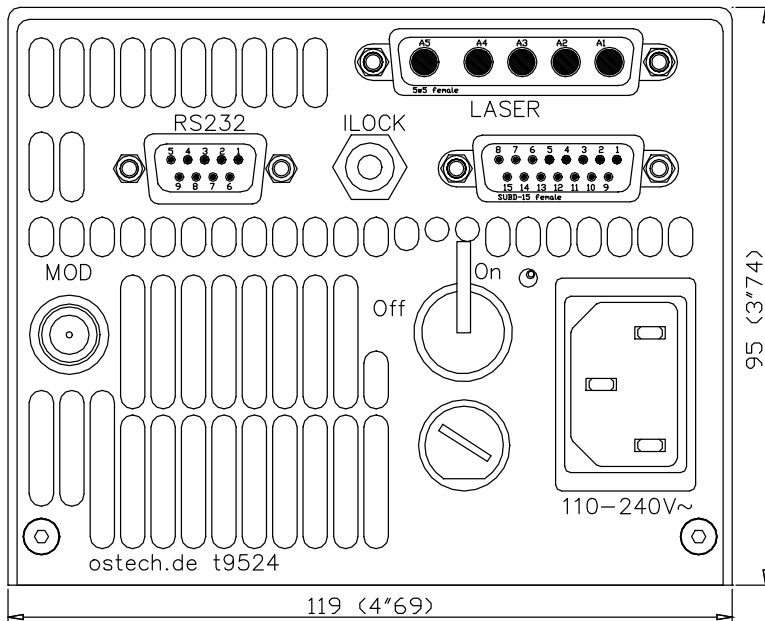


fig: ds01-Rear length 280mm (11")

Revision overview:

2006.10.10: "v0" - base derivation in ds11-t95 series

2011.04.28: "v1" - Photo Diode max. Current increased from 2mA to 4mA, only 1 Pin for temperature sensor, software-v2030

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-la60-2x6qmm-5w5-oe-1m3-298
cable 2x6qmm / imax 60A SUBD-5W5 to open ends / length-1m3