

active cooling block

Type: hsa-150-162208-v0-729

cooling block corresponding to OsTech laser-tec-driver pinout

direct mounting of diode lasers to cooling block with integrated TEC modules

Mounting plate prepared for mounting of device that has to be cooled

el. fan data: 24V / 50W

max. noise value: 53dB(A)

max. TEC values: 11A / 20V

mounting area: 160mm x 160mm at maximum

optional: base plate for heat sink
 temperature sensor: 10k NTC

Cooling block could handle typical power loss of laser-diode in conjunction with laser temperature:

ambient temperature 25°C

ambient temperature 35°C

device temperature – cooling capacity

device temperature – cooling capacity

15°C – 110W

15°C – 40W

20°C – 130W

20°C – 55W

25°C – 150W

25°C – 70W

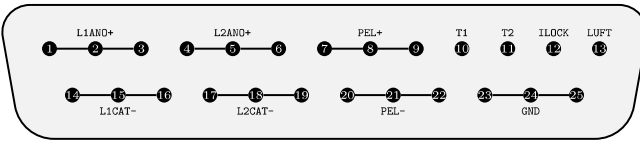
30°C – 170W

30°C – 90W



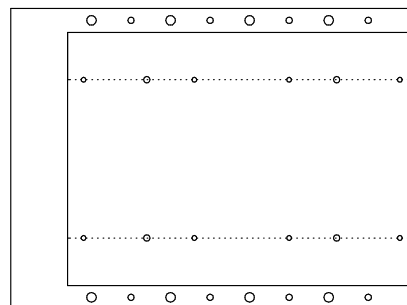
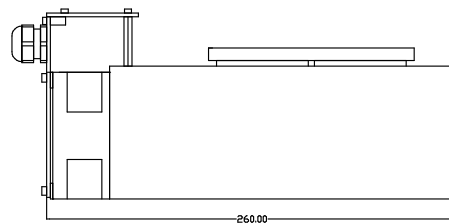
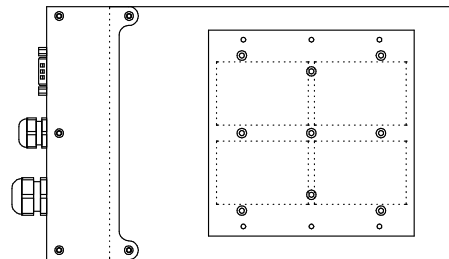
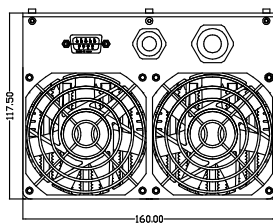
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Laser & Peltier Connector



SubD25-male

PIN.No	Abbr.	Function
1;2;3	L1ANO+	Laser Diode 1 Anode(+)
4;5;6	L2ANO+	Laser Diode 2 Anode(+)
7;8;9	PEL+	Peltier element (+)
10	T1	Temperature Sensor 1 Input, default NTC10kΩ, v.s. GND
11	T2	Temperature Sensor 2 Input, default NTC10kΩ, v.s. GND
12	ILOCK	Alternative Interlock Input, vs. GND
13	LUFT	1 to 24V Supply, max. 500mA, vs. GND, supports fan etc.
23;24;25	GND	Common Ground
14;15;16	L1CAT+	Laser Diode 1 Cathode(-)
17;18;19	L2CAT+	Laser Diode 2 Cathode(-)
20;21;22	PEL-	Peltier element (-)



baseplate as an optional feature, 25mm grid for use with optical benches

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Selection of standard device configurations:

Type	Device name	Max. heat loss	Laser assembled
348	hsa-120-1616-v0-653-348	110W	11.8mm x 27.5mm 4x M2.5
410	hsa-120-1616-v0-653-410	110W	JOLD-75-FC

Revision overview:

References:

<http://www.ostech.de/en/products/heatsinks/hsa>
<http://www.ostech.de/en/downloads/manuals/ds-en.pdf>
<http://www.ostech.de/en/downloads/labview>

Accessories

- kab-24pol-0,34qmm-subd25m-oe-1.5m-674
 cable 24polx0.34qmm, max-4A/pin, SUBD-25 to open ends, length-1m5