

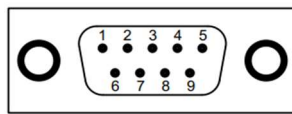
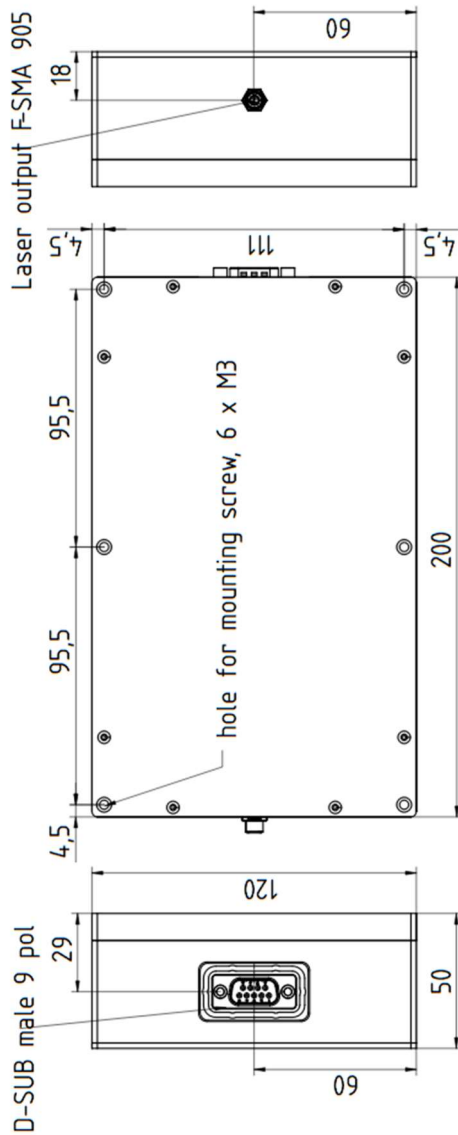
BlueLas50

Blue Diode Laser



- Optical output power 50 W
- Fibre coupled 400 μm
- Wavelength 450 nm
- Conduction cooled
- Integrated heat spread plate
- High coupling efficiency
- Scalable output power
- Integrated NTC temperature sensor
- Appropriate power supply and heat sink available

Parameter	Unit	Value
Optical		
Center Wavelength	nm	447
Center Wavelength Tolerance	nm	± 8
Optical Output Power	W	50
Slope Efficiency	W/A	~5,7
Fiber		
Fiber Core Diameter	μm	400
Numerical Aperture	NA	0.22
Fiber Connector		SMA 905
Electrical		
Power Conversion Efficiency	%	>20
Threshold Current (I_{TH})	A	<0.4
Operating Current (I_{OP})	A	<3.5
Operating Voltage (U_{OP})	V	<64
Thermal		
Operating Temperature Range	$^{\circ}\text{C}$	15 to 25
Storage Temperature Range	$^{\circ}\text{C}$	5 to 60
Sensor Type		Thermistor (others upon request)
Thermistor		NTC, 10k Ω @ 25 $^{\circ}\text{C}$



D-Sub male 9 pol:

Pin	Signal
1	Anode (+)
2	Shortened with 1
3	Cathode (-)
4	Shortened with 3
5	n.c.
6	NTC 10kOhm
7	NTC 10kOhm
8	n.c.
9	n.c.

