



Blue Laser Diode 450nm

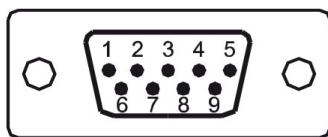
PRECISION LASER DIODE SYSTEMS

BlueLas Series

- Optical output power 12 / 25W / 50W
- Fiber coupled 200µm / 400µm
- Wavelength 450nm
- Conduction cooled
- Integrated heat spread plate
- High coupling efficiency
- Scalable output power
- Integrated NTC temperature sensor
- Appropriate power supply and heat sink available

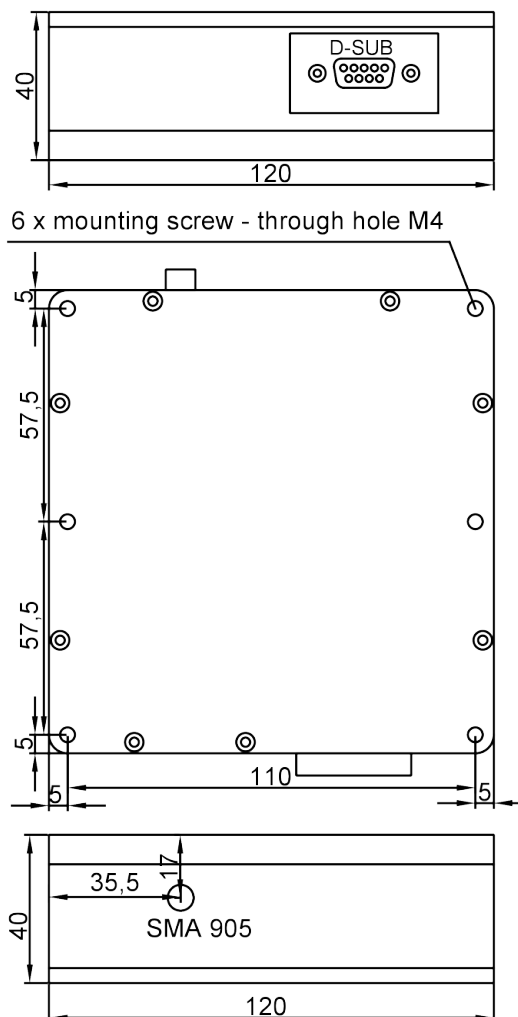
BlueLas Laser Diode

Parameter	Unit	Value		
Optical				
Center Wavelength	nm	447		
Center Wavelength Tolerance	nm	± 8		
Optical Output Power	W	12	25	50
Slope Efficiency	W/A	~ 4	~ 8	~ 16
Fiber				
Fiber Core Diameter	μm	200		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	<2.6		
Operating Voltage(U _{OP})	V	< 27.5	< 55	< 2 x 55
Thermal				
Operating Temperature Range	°C	20 to 25		
Storage Temperature Range	°C	5 to 60		
Sensor Type		Thermistor (others upon request)		
Thermistor		NTC, 10kΩ @ 25°C		



SUB-D MALE 9pol:

- 1 anode (+)
- 2 shortened with 1
- 3 cathode (-)
- 4 shortened with 3
- 5 n.c.
- 6 NTC
- 7 NTC
- 8 n.c.
- 9 n.c.



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