Technical Information

Diode Pumped Green Solid State Laser

DPGL® 1000

Features

- Ultra Compact Model
- Modulation up to 15 kHz
- Air Cooling
- Excellent Beam Properties
- OEM style driver and power supply

Applications

Diode Pumped Solid State Lasers are playing a key role in the future of the constantly growing laser industry. Being smaller, more efficient and more inexpensive than gas lasers, the compact DPGL® design offers advantages in professional applications like e.g. in laser displays, medical diagnostic tools, marking systems or measurement devices.

Specification

Wavelength	532 nm
Optical power	CW, >1000mW, typ. 1100mW
Beam mode	90% TEMoo
Beam diameter ($1/e^2$)	< 2.5 mm
Beam divergence ($1/e^2$)	< 1 mrad
Modulation	< 15 KHz, 5VDC analog input
Polarization	Linear 50:1
Operating power	90-250VAC
Optimal operation temperature	+10 °C to + 35 °C
Warm up time	ca. 5 min
Cooling type	Active TEC
Size Laser-head (l x w x h)	155 mm x 77 mm x 60 mm
Operating hours (at 8 h / day)	Typ. > 5000 h

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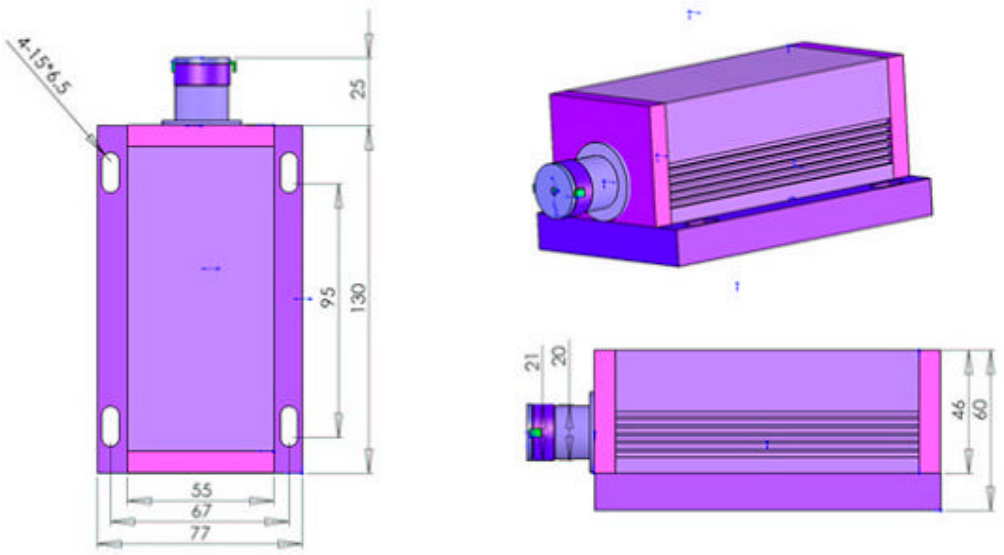
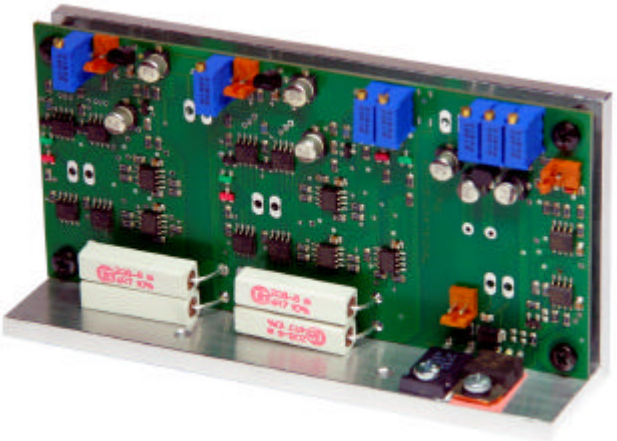
LASER HEAD DIMENSIONS



Laser driver board

The OEM style driver board allows a flexible application and mounting in most existing laser systems. The driver board operates the laser head with full bridged TEC drivers for short time warm up period. The blanking enhancement circuit offers more stability during blanking modulation.



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