



中国长春新产业光电技术有限公司  
Changchun New Industries Optoelectronics Tech. Co., Ltd

## PGL-H-980



Diode infrared laser module at 980nm is made features of ultra compact, long lifetime, low cost and easy operating, which made it be used widely in measurement, communication and spectrum analysis, etc.

### SYSTEM SPECIFICATIONS\*

Wavelength	nm	980
Wavelengthtolerance	nm	±10
Outputpower	mW	1-1500
Operating mode		CW
Transverse mode		Multimode
Beam diameter at the aperture(1/e <sup>2</sup> )	mm	~6
Beam divergence, full angle	mrاد	<5
Working time	seconds	30
Expected lifetime	hours	10000
Warranty	years	1

*Worked with TEC for long time operation.*

### ELECTRICAL SPECIFICATIONS

Operating voltage(external PCB1)	3VDC
Operating voltage(external PCB2)	5VDC(TTL10kHz or Analog0-5V, optional)
Connection	Cable with flying leads

### ENVIRONMENTAL CONDITIONS

Operating temperature	0°C to 40°C
Storage temperature	-20°C to 80°C
Humidity	<90 %, non-condensing
Dissipated heat	<4.5W

### MECHANICAL SPECIFICATIONS

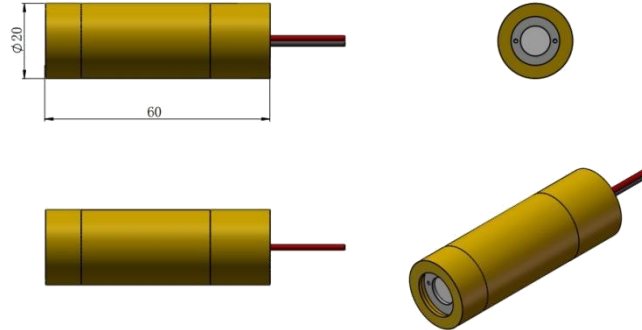
Laser head diameter Φ	mm	20
Length	mm	60
Material		Copper
Shell polarity		The housing is positive electrodes

\*All testing data under the conditions of temperature 25°C.

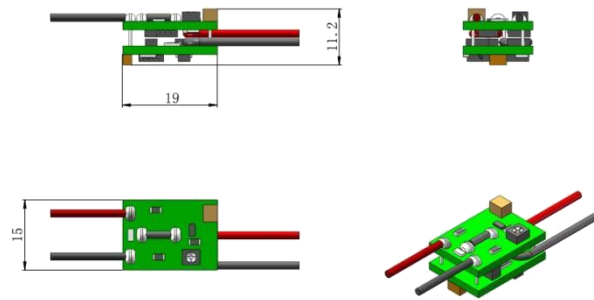


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Dimensions of laser( $\Phi 20 \times 60 \text{mm}^2$ )



Dimensions of PCB1( $11.2 \times 15 \times 19 \text{mm}^3$ , 3VDC)



Dimensions of PCB2( $11.2 \times 15 \times 19 \text{mm}^3$ , 5VDC, TTL10kHz or Analog0-5V)

