MSL-III-783L/1-80mW

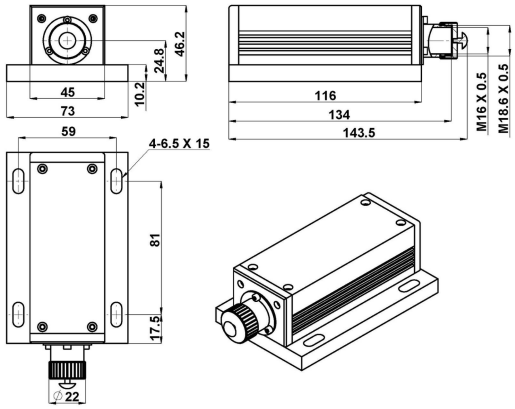
SINGLE LONGITUDINAL MODE INFRARED DIODE LASER AT 783nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in Raman spectroscopy, speckle interferometry, bio-instrumentation, metrology, sensing, analytical instrumentation.

SPECIFICATIONS

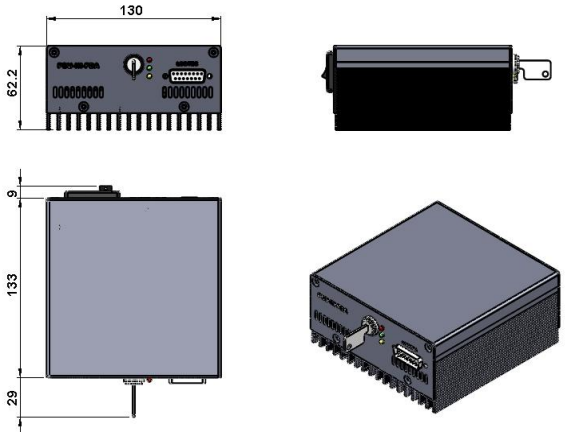
Central wavelength (nm)	783±0.5
Operating mode	CW
Output power (mW)[1]	1-80
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Transverse mode	Near TEM_{00}
Longitudinal mode	Single
Spectral line width (MHz)	<100, (<50 optional)
Coherent length (m)	>2
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%
M^2	<1.5
Beam diameter at the aperture ($1/e^2$, mm)	~1.0
Beam divergence, full angle (mrad)	~2.0
Polarization ratio	>50:1, (>100:1 optional) Horizontal±5 degree (Vertical optional)
Warm-up time (minutes)	<5
Beam height from base plate (mm)	24.8
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-III-FDA
Expected lifetime (hours)	>10000

LASER HEAD



143.5 (L) ×73 (W) ×46. 2 (H) mm^3, 0.7kg

POWER SUPPLY[2]



171 (L) ×130 (W) ×62.2 (H) mm^3, 1.2kg

1 Any power level can be selected in this range.

2 Fixed output power.