

MDL-XS-780/1-80mW



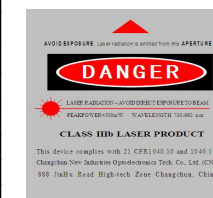
DIODE XS SERIES LASER AT 780nm

It features integrated electronics, plug and play, miniaturization, international standard interface. They are the ideal solution for a wide range of applications including life sciences, environmental monitoring, inspection and machine vision.

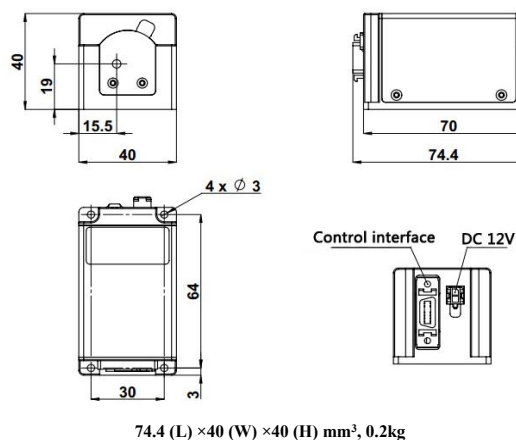


SPECIFICATIONS

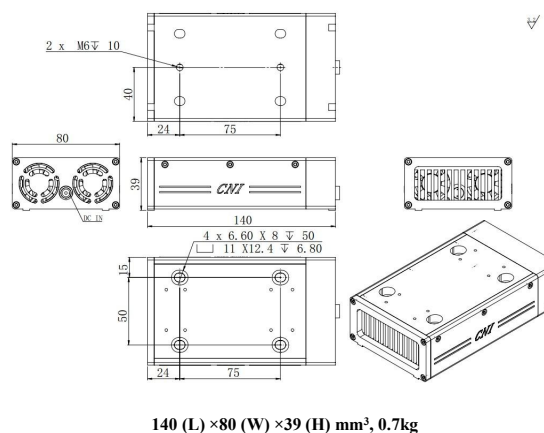
Central wavelength (nm)	780±10
Operating mode	CW
Output power (mW) ¹	1-80
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Transverse mode	Near TEM ₀₀
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%
M ²	~1.5
Beam diameter at the aperture (1/e ² , mm)	~1.2
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>10:1, (>50:1 optional) Horizontal±5 degree (Vertical optional)
Warm-up time (minutes)	<5
Beam height from base plate (mm)	19
Operating temperature (°C)	10-35
Operating voltage (VDC)	12V/4A
Modulation option	DMOD (TTL) DC-1MHz AMOD (Analog) DC-100kHz DMOD+ AMOD (TTL + Analog)
Expected lifetime (hours)	>10000



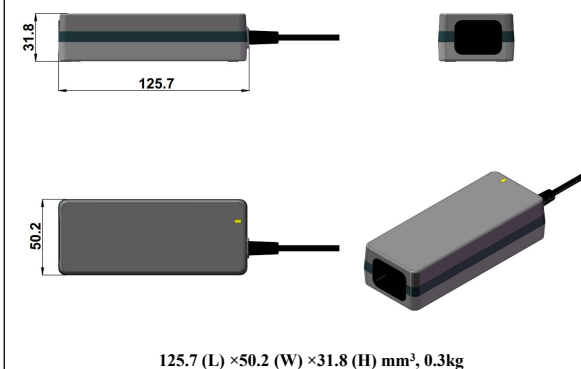
LASER HEAD (DRIVER Integrated)²



HEATSINK (TC-05) optional



POWER SUPPLY (100-240VAC) optional



¹ Any power level can be selected in this range.

² The laser head needs to be used on a heat sink with good heat dissipation. Fixed output power; RS232 control optional.