

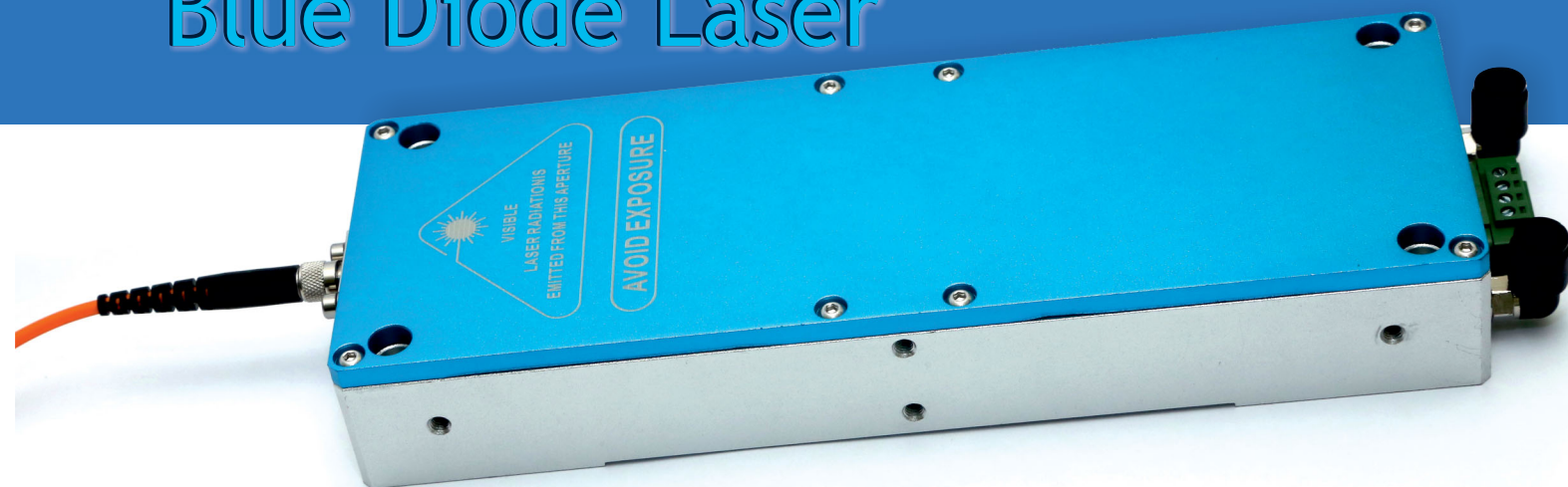
Features:

CW Output Power 10W
 Fiber Core Diameter 105 μ m / NA 0.22
 Compact Design
 Temperature Sensor
 Water Cooling

Applications:

Material Processing
 Micro-Soldering
 Laser Display / Projector
 3D Printing
 Scientific Applications

High Brightness Fiber-coupled Blue Diode Laser



FACH-450-10W-FC105

Optical Specifications

CW Output Power (W)	10
Center Wavelength λ (nm)	450
Center Wavelength Tolerance $\Delta\lambda$ (nm)	± 10
Spectral Width (FWHM) (nm)	<15

Fiber Specifications

Fiber Core (μ m)	105
Numerical Aperture (NA)	0.22
Connector	SMA-905

Electrical Specifications (typical)

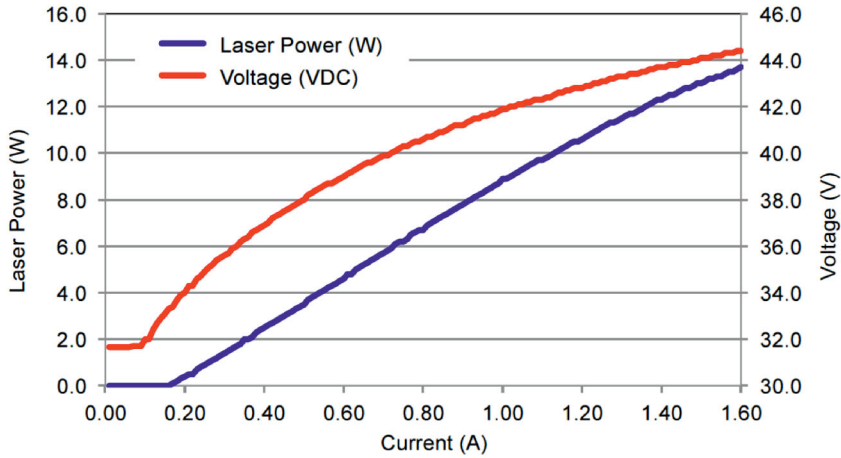
Threshold Current (A)	0.2 - 0.3
Operation Current @ 10W (A)	1.2 - 1.5
Operation Voltage @ 10W (V)	43 - 45
Conversion Efficiency (%)	>18

Thermal Specifications

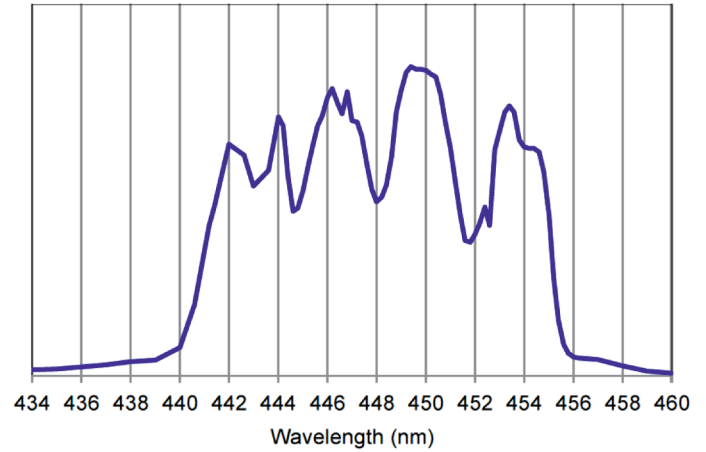
Water Temperature ($^{\circ}$ C)	20 - 25
Environmental Temperature ($^{\circ}$ C)	15 - 30
Storage Temperature ($^{\circ}$ C)	5 - 60

Typical Performance

Output Power



Emission Spectrum

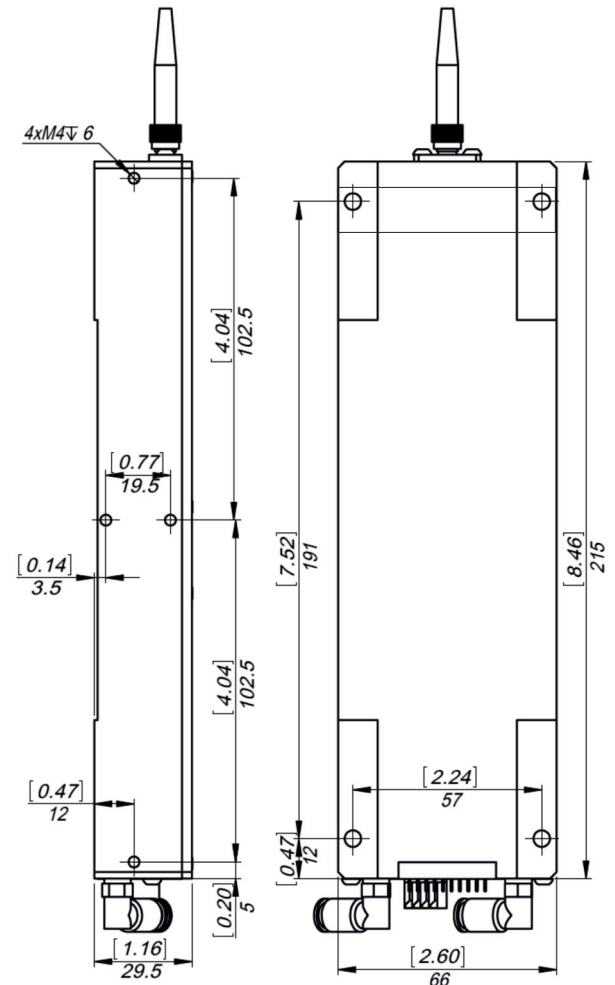
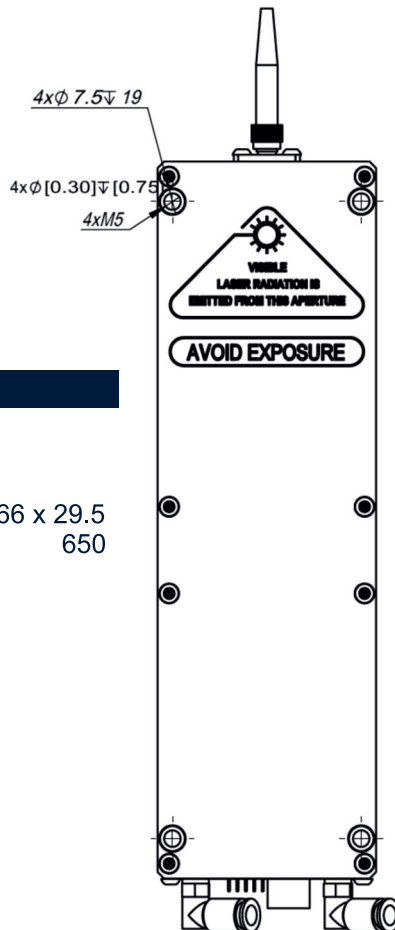


Package Dimensions (mm)

Top View

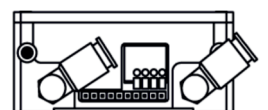
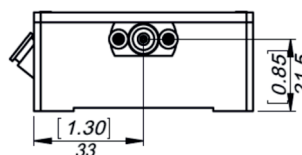
Side View

Bottom View



Front View

Black View



Mechanical Specifications

Laser Head Dimensions (mm)
(Fiber and connector not included) 215 x 66 x 29.5
Weight (g) 650