

Compass 115M

CW Green Lasers

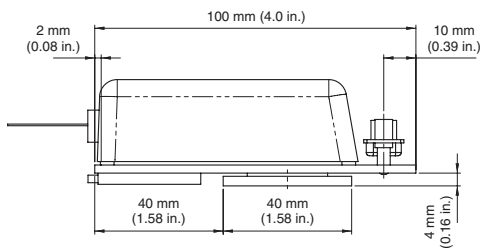
Features

- Best performance-to-price ratio
- Excellent laser beam parameters
- Reliable by design
- Highest unit-to-unit consistency
- Unsurpassed lifetime
- Lowest cost of ownership

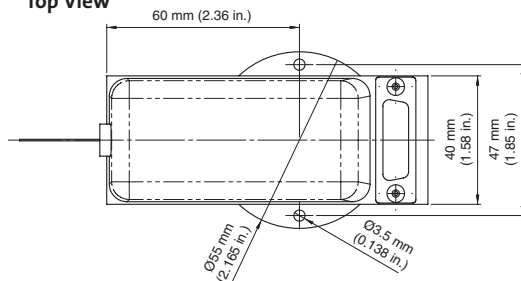


Mechanical Specifications

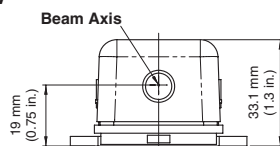
Laser Head – Side View



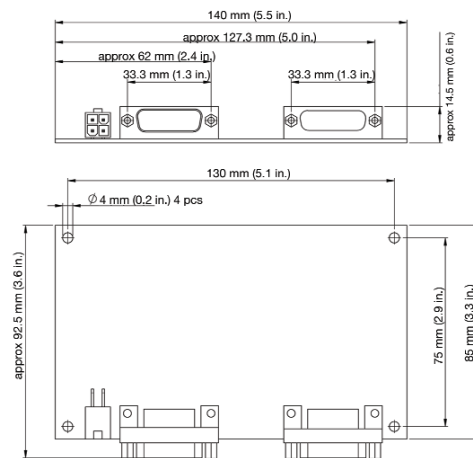
Laser Head – Top View



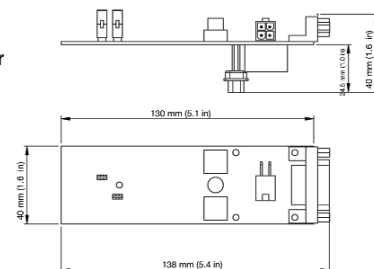
Laser Head – Rear View



Standalone Controller



On-Top Controller



Superior Reliability & Performance

Compass™ 115M

CW Green Lasers

Specifications

Wavelength (nm)	532
Output Power (mW)	
Compass 115M-5	5
Compass 115M-10	10
Compass 115M-15	15
Compass 115M-20	20
Spatial Mode	TEM ₀₀
M ²	<1.2
Circularity of Beam	>90%, <1.1:1
Beam Diameter @1/e ² (mm)	0.32 ±15%
Beam Divergence (mrad)	<3
Pointing Stability (μrad/°C)	<6
Noise (10 Hz to 1 MHz)(rms)	<0.5%
Long-Term Power Stability (over 8 hours)	<5%
Warm-Up Time (min.)	<5
Polarization Ratio	100:1, vertical
Static Alignment Tolerances	
Beam Position ¹ (mm)	±1
Beam Angle (mrad)	±2.5

Environmental Specifications

Operating Voltage ² (VDC)	5 to 6
Power Consumption (W)	<25
Maximum Power Consumption (W)	
Laser Head	<15
Controller	<10
Maximum Laser Head Baseplate Temperature for Conductive Cooling	45°C (113°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions (L x W x H)	
Laser Head	100 x 55 x 33.5 mm (4.0 x 2.2 x 1.3 in.)
On-Top Controller	138 x 40 x 40 mm (5.4 x 1.6 x 1.6 in.)
Stand-Alone Controller (optional)	140 x 92.5 x 14.5 mm (5.5 x 3.6 x 0.6 in.)
Power Supply (optional)	174 x 107 x 43 mm (6.9 x 4.2 x 1.7 in.)
Cable—Laser Head to Controller	1 m (3.3 ft.)
Weights	
Laser Head	0.15 kg (0.33 lbs.)
On-Top Controller	0.1 kg (0.22 lbs.)
Stand-Alone Controller (optional)	0.2 kg (0.44 lbs.)
Power Supply (optional)	0.7 kg (1.54 lbs.)
Cable—Laser Head to Controller	0.25 kg (0.55 lbs.)

Measurement Tools³

Detector	FieldMax-TO
Sensor	OP-2VIS

Specifications are valid for nominal power.

¹ Static alignment tolerances are relative to the left edge of the laser head board in beam direction.

² The power supply must meet the following requirements.

DC Voltage	5 to 6V
Power	50W
Ripple	<5% peak-to-peak

³ Pricing for measurement tools can be obtained through your local sales representative.

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Compass lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

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