



Compass 215M

CW Green Lasers

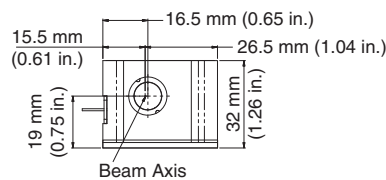


Features

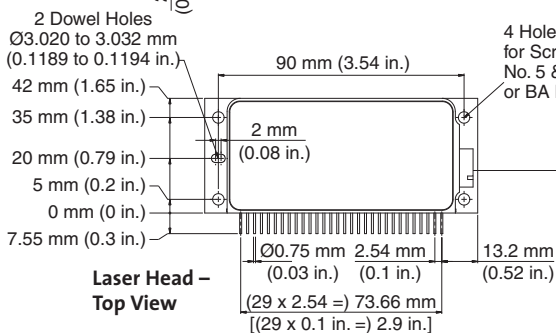
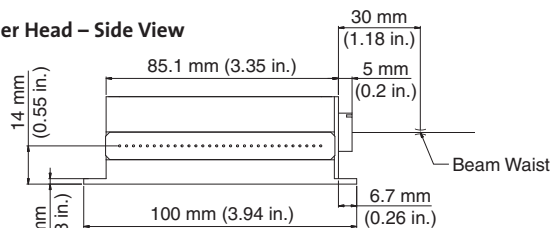
- Superior performance – medium output power
- Outstanding laser beam parameters
- Proven reliability
- Highest unit-to-unit consistency
- Unsurpassed lifetime

Mechanical Specifications

Laser Head – Front View

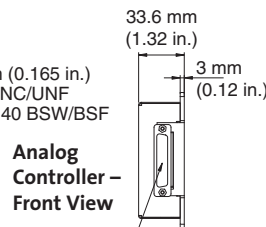
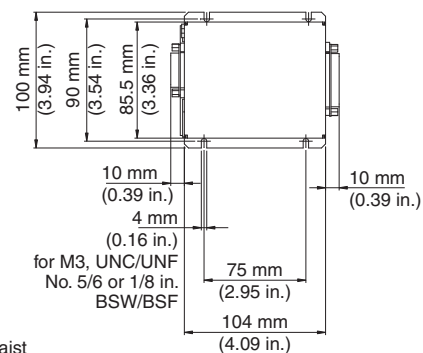


Laser Head – Side View



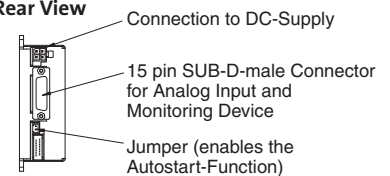
Laser Head – Top View

Analog Controller – Top View



Analog Controller – Front View

Analog Controller – Rear View



Superior Reliability & Performance

Compass™ 215M

CW Green Lasers

Specifications

Wavelength (nm)	532
Output Power (mW)	
Compass 215M-10	10
Compass 215M-15	15
Compass 215M-20	20
Compass 215M-50	50
Compass 215M-75	75
Spatial Mode	TEM ₀₀
M ²	<1.1
Circularity of Beam	>95%, <1.05:1
Beam Diameter @1/e ² (mm)	0.32
50 mW version (optional) ⁴	0.6
Beam Divergence (mrad)	<2.5
Pointing Stability (μrad/°C)	<6
Noise (10 Hz to 1 GHz)(rms)	<0.5%
Long-Term Power Stability (over 8 hours)	<±2%
Warm-Up Time (min.)	<10
Polarization Ratio	100:1, vertical
Static Alignment Tolerances ¹	
Beam Position (mm)	±0.25
Beam Angle (mrad)	±1

Environmental Specifications

Operating Voltage ² (VDC)	5 ±5%
Power Consumption (W)	<50
Maximum Power Consumption (W)	
Laser Head	25
Controller	15
Maximum Laser Head Baseplate Temperature for Conductive Cooling ³	45°C (113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions (L x W x H)	
Laser Head	100 x 42 x 32 mm (4.0 x 1.7 x 1.3 in.)
Analog Controller	100 x 104 x 33.6 mm (4.0 x 4.1 x 1.3 in.)
Heatsink (optional)	155 x 85 x 40 mm (6.1 x 3.3 x 1.6 in.)
Power Supply (optional)	235 x 63.5 x 35 mm (9.3 x 2.5 x 1.4 in.)
Cable—Laser Head to Controller	1 m (3.3 ft.)
Weights	
Laser Head	0.25 kg (0.55 lbs.)
Analog Controller	0.24 kg (0.53 lbs.)
Heatsink (optional)	0.35 kg (0.77 lbs.)
Power Supply (optional)	0.70 kg (1.54 lbs.)
Cable—Laser Head to Controller	0.35 kg (0.77 lbs.)

Measurement Tools

Detector	FieldMax-TO
Sensor	OP-2VIS
Specifications are valid for nominal power.	
¹ Static alignment tolerances are relative to adjustment holes.	
² The power supply must meet the following requirements.	
DC Voltage	5 V ±5%
Power	50W
Ripple	<5% peak-to-peak
³ With factory-provided or other adequate heatsink.	
⁴ 50 mW option with beam diameter 0.60 mm: beam asymmetry >90%, beam divergence <1.5 mrad, beam waist location ±250 mm	

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.



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