



# Onyx MCCP 9010-HDPKG

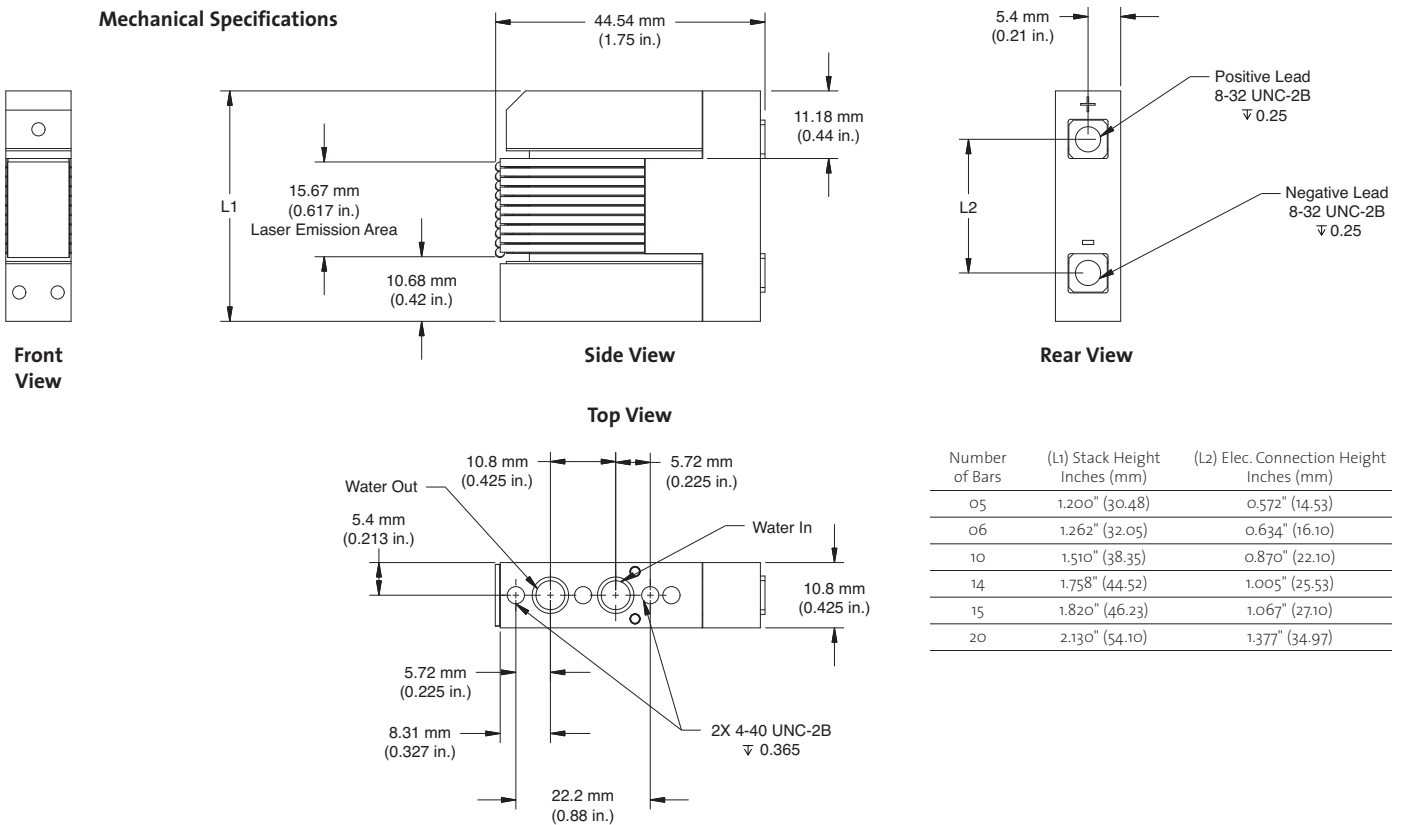
9010 Series High-Density Array 1.6 mm Pitch



## Features

- High-power, high-density vertical array, up to 20 bars
- Compatible with any Coherent 9001 laser diode bar
- Power levels up to 2000W
- High-density 1.6 mm vertical bar-to-bar pitch
- CW, QCW, or ON-OFF (“Hard Pulsed”) Operation
- 11 mm package width for high density two-dimensional arrays
- Fast axis collimation available
- Water-cooled

## Mechanical Specifications



Number of Bars	(L1) Stack Height Inches (mm)	(L2) Elec. Connection Height Inches (mm)
05	1.200" (30.48)	0.572" (14.53)
06	1.262" (32.05)	0.634" (16.10)
10	1.510" (38.35)	0.870" (22.10)
14	1.758" (44.52)	1.005" (25.53)
15	1.820" (46.23)	1.067" (27.10)
20	2.130" (54.10)	1.377" (34.97)

Superior Reliability & Performance

# Onyx™ MCCP 9010-HDPKG

## 9010 Series High-Density Array 1.6 mm Pitch

### Device Specifications

Number of Bars	5, 6, 10, 14, 15, 20
Wavelength <sup>1</sup> and Wavelength Tolerance	Same as Onyx 9001 Series specification
Array Spectral Width (FWHM)(nm)	<5
Power/Bar	Same as Onyx 9001 Series specification
Coolant Temperature <sup>2</sup>	Same as Onyx 9001 Series specification
Bar Geometry	Same as Onyx 9001 Series specification
Bar Pitch (mm)	1.6
Divergence FWHM (no lenses)	Same as Onyx 9001 Series specification
Divergence FWHM (with fast lens)	Same as Onyx 9001 Series specification
Maximum Coolant Pressure (psi)	65
Typical Coolant Pressure (psi)	35
Coolant Flow Rate/Bar in Stack (l/min.)	Same as Onyx 9001 Series specification
Operating Voltage/Bar in Stack (V)	<1.9
Series Resistance/Bar in Stack ( $\Omega$ )	0.005
Storage Temperature (°C)	5 to 40
Operating Temperature (°C)	20 nominal; 10 to 35

<sup>1</sup> Additional wavelengths are available; please contact Coherent.

<sup>2</sup> The following water conditions must be met: Operation at temperatures below the dew point requires the use of Class D breathing air environment; deionized water is required; conductivity should be maintained at 2 to 4 microsiemens or 250K ohms to 500K ohms; the pH should be maintained at a range from 7.0 to 7.5; water filter should be rated <30 microns.

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 Onyx Diode Laser Bars. For full details of this warranty coverage, please refer to the Service section at [www.Coherent.com](http://www.Coherent.com) or contact your local Sales or Service Representative.



[www.Coherent.com](http://www.Coherent.com)

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