

Onyx MCCP 9014-HPHDPKG

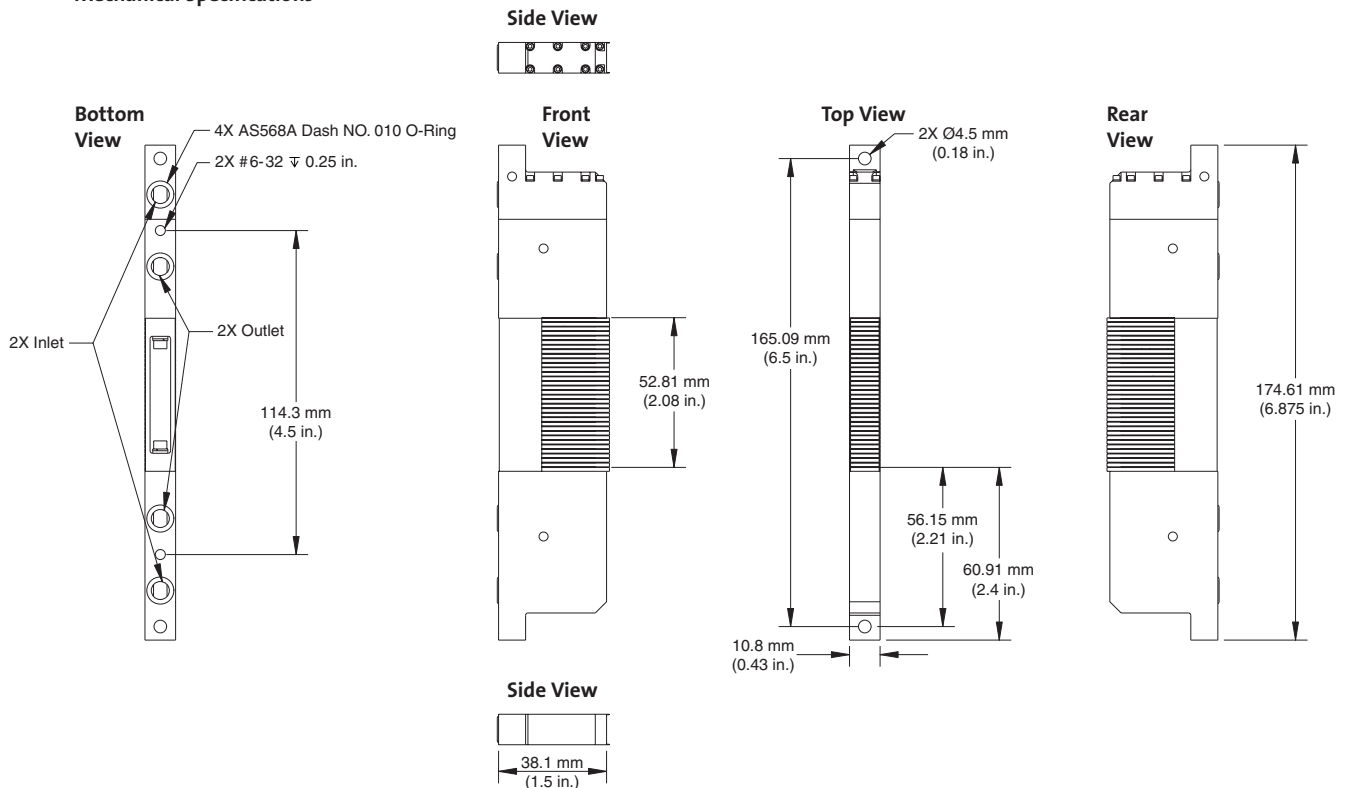
9014 Series High-Power High-Density Array 1.6 mm Pitch



Features

- High-power vertical array, up to 45 bars
- Compatible with any Coherent 9001 laser diode bar
- Power levels up to 4500W
- >500W/cm² optical intensity
- Mean-time-to-failure (MTTF) >10,000 hours
- 9014 Series 1.6 mm vertical bar-to-bar pitch
- CW, QCW, or ON-OFF (“Hard Pulsed”) Operation
- 12 mm package width for high density horizontal arrays
- Fast axis collimation available
- Water-cooled

Mechanical Specifications



Superior Reliability & Performance

Onyx™ MCCP 9014-HPHDPKG

9014 Series High-Power High-Density Array 1.6 mm Pitch

Device Specifications

Number of Bars	1 to 45
Wavelength ¹ 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 ²	Same as Onyx 9001 Series specification
Bar Geometry (Fill Factor, Emitter Dimensions)	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
Thermal Resistance (deg. C/W)	0.3
Maximum Coolant Pressure (psi)	65
Typical Coolant Pressure (psi)	35
Coolant Flow Rate/Bar in Stack (l/min.)	>0.3
Operating Current and Threshold Current	Same as Onyx 9001 Series specification
Operating Voltage/Bar in Stack (V)	<1.9
Series Resistance/Bar in Stack (Ω)	0.005
Storage Temperature (°C)	5 to 40

¹ Additional wavelengths are available; please contact Coherent.

² 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 or contact your local Sales or Service Representative.



www.Coherent.com

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