

PulseLife CCP

Conductively-Cooled Single Laser Diode Bar Package

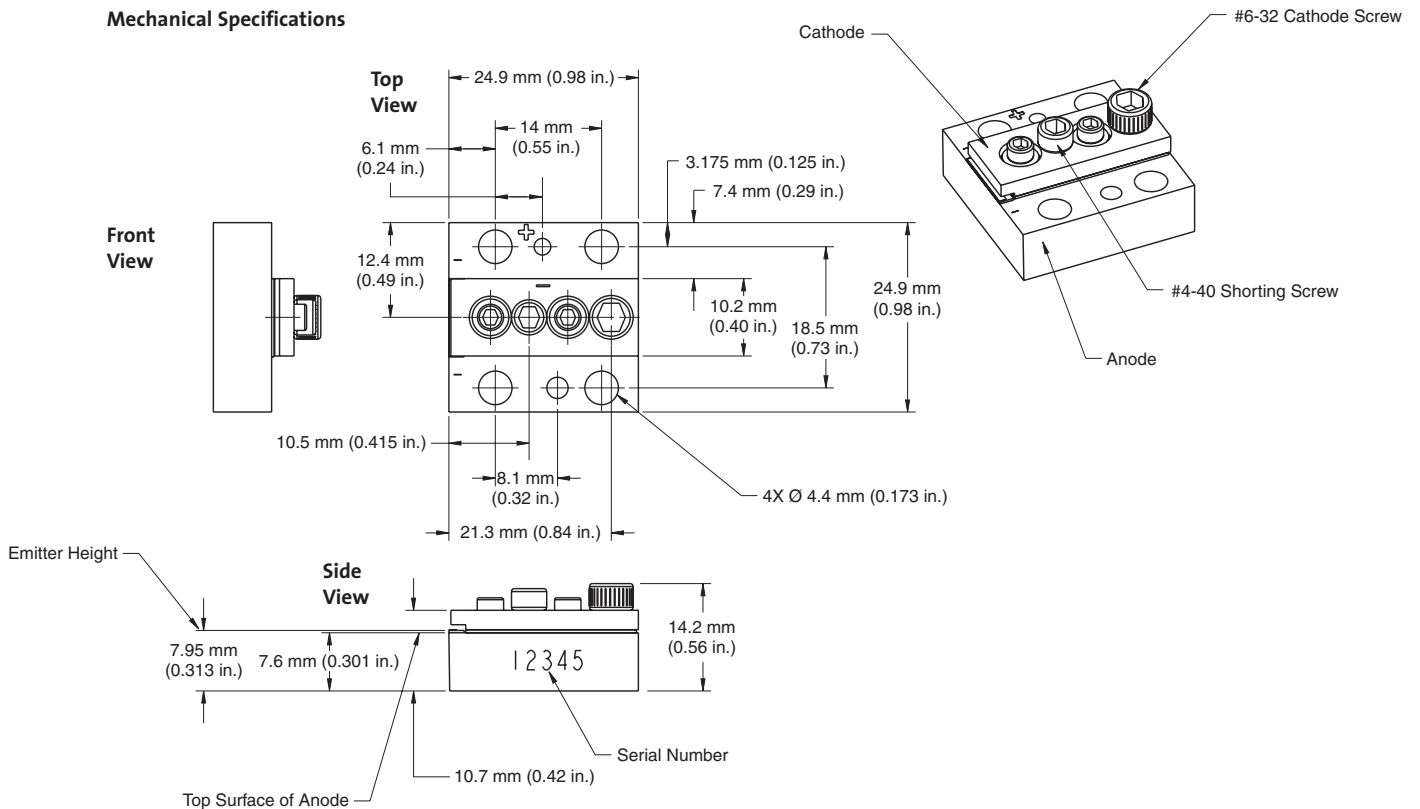


Features

- Powers to 50W CW
- Cycled* mean-time-to-failure >20,000 hours
- High temperature operation—as high as 75°C**
- Passes military shock and vibration testing

* Cycled refers to repeated turning of the device on to full power for one second, then to zero current for one second, i.e. "hard on-off" mode.
 ** High temperature capability is available on request.

Mechanical Specifications



Superior Reliability & Performance

PulseLife™ CCP

Conductively-Cooled Single Laser Diode Bar Package

Device Specifications¹

Name	HCCP-CW-30% \times 1.5-50W -800.0to820.0-25C	HCCP-CW-26% \times 1.5-50W -930.0to950.0-25C	HCCP-CW-26% \times 1.5-50W -970.0to990.0-25C
Part Number	1128876	1128877	1128878
CW Output Power (W)	50	50	50
Center Wavelength (nm)	810	940	980
Wavelength Tolerance (nm)	\pm 10	\pm 10	\pm 10
Spectral Width (nm) (FWHM)	<5	<6	<6
Fill Factor (%)	30	26	26
Number of Emitters	19	19	19
Emitter Size (μ m)	150	130	130
Slow Axis Divergence ($^{\circ}$) (FWHM)	<10	<10	<10
Fast Axis Divergence ($^{\circ}$) (FWHM)	<35	<40	<40
Polarization	TM	TE	TE
Conversion Efficiency (%)	>45	>60	>60
Operating Current (A)	<65	<65	<65
Operating Voltage (V)	<2.0	<1.6	<1.6
Operating Temperature ($^{\circ}$ C)	25	25	25

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 PulseLife CCPs. 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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