

High Power Multimode Laser Arrays

PML-1xx series

Princeton Lightwave offers a series of high power laser diode arrays for long wavelength (1400 to 1850 nm) applications. These lasers feature a proprietary MQW laser structure that yields exceptional high power and reliability. Applications include solid state laser and fiber laser pumping. Arrays are mounted on a copper block heat sink that can be easily cooled to achieve specified output powers.



Features:

- High Power 1 cm arrays
 - 25W @ 1450 nm
 - 10W @ 1850 nm
- High Reliability

Applications:

- Solid State Laser Pumping
- Fiber Laser Pumping
- Medical Instrumentation
- Defense/Aerospace

Key Product Specifications 1450/1470 nm and 1850 nm Long Wavelength Arrays

Parameter			units
Wavelength	1450/1470	1850	nm
Maximum Output Power	25	>10	W
Forward Voltage	1.25	1.3	V
Threshold Current	15	8	A
Wavelength Tolerance	±20	±20	nm
Spectral Width	8	13	nm
Slope Efficiency	0.48	0.31	W/A
Slow Axis Divergence (FWHM)	8	10	degrees
Fast Axis Divergence (FWHM)	42	65	degrees
Number of Emitters	19	10	
Emitter Width	100	100	μm
Emitter Pitch	500	1000	μm
Fill Factor	20	10	%
Bar Length	1	1	cm

Ordering Information

Product Number	Description
PML-150	1450 nm CS mounted bar
PML-170	1470 nm CS mounted bar
PML-185	1532 nm CS mounted bar

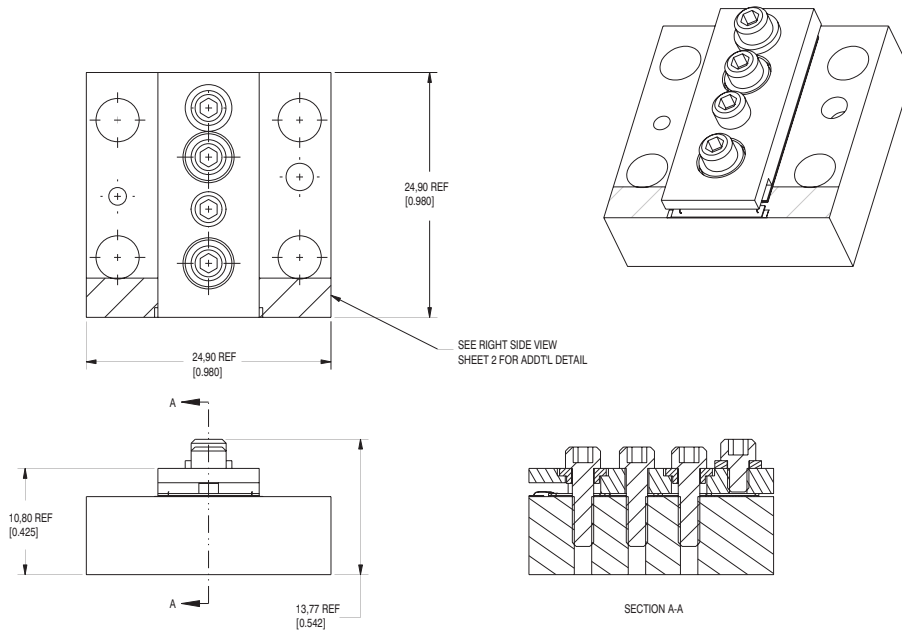
Princeton Lightwave, Inc.
 2555 Route 130 South Suite 1, Cranbury, NJ 08512
 Tel: 609.495.2600
 Fax: 609.395.9114
 email: sales@princetonlightwave.com
 website: www.princetonlightwave.com

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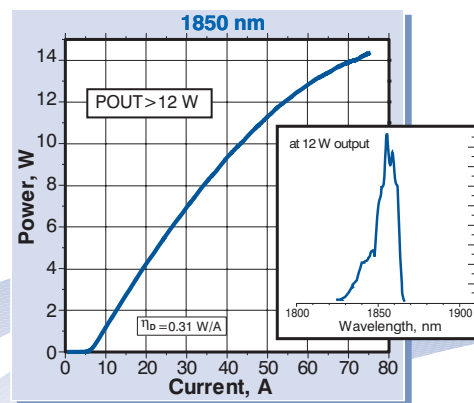
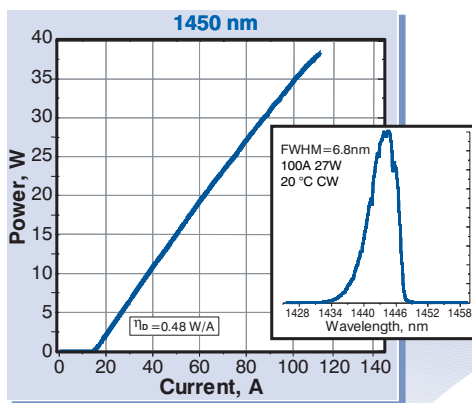
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Mechanical Drawing



Performance



Princeton Lightwave, Inc.
2555 Route 130 South Suite 1, Cranbury, NJ 08512
Tel: 609.495.2600
Fax: 609.395.9114
email: sales@princetonlightwave.com
website: www.princetonlightwave.com

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