



Features

 Up to 30W CW output power

 High Quality, Reliability, & Performance

Applications

- Solid State Pumping
- Laser Display
- Graphics
- Medical/Dental
- Industrial
- Defense

Contact

contact us at:

To request additional

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information please

Product Specifications 808nm Multi-Mode Laser Diodes 1000µm emitter (25-30W)



Description

High brightness, high quality, and high reliability are the foundation of our multi mode product line. Sheaumann's 808nm multi mode laser diodes are available with up to 15W of continuous output power from a 400µm single emitter chip. Sheaumann's trademark laser chip design creates unmeasurable degradation and long lifetimes that make our chips among the most reliable in the industry today. Sheaumann's 30W diode was made to replace multiple-emitter arrays and bars, while offering easy fiber coupling and greater brightness. Our 808nm multi mode line serves a broad range of applications including solid state pumping, laser

display, graphics, medical, dental, industrial, and defense.

Packaging options include industry standard CS-mount. More product options are available upon request. Please view our website for mechanical drawings for these specifications.

25W Series 30W Series Parameter Unit Min Тур Max Min Тур Max 808 808 811 811 Wavelength nm 805 805 Spectrum FWHM nm 2 4 2 4 Operating Power (Po) w _ 25 _ 30 А 30 Operating Current (I_o) 33 35 38 --Operating Voltage (V_o) v _ 2.0 2.5 -2.0 2.5 Lifetime hour 40,00 _ _ 40.000 _ _ 0 Vertical Far Field 25 35 40 25 35 40 deq. FWHM Parallel Far Field 12 deg, FWHM 8 10 8 10 12 Threshold (Ith) A 4.5 5.5 4.5 5.5 Slope Efficiency (dP/dI) W/A 1.2 1.0 1.0 1.2 _ °C -40 -80 -40 _ 80 Storage Temp Operating Temp. (Top) °C -20 25 50 -20 25 50 °C 250 250 Lead Soldering Temp.(5 sec)

Performance Data for 808nm Multi-Mode Diodes

Note: Specifications are subject to change without notice. All Sheaumann Laser products are TE polarized



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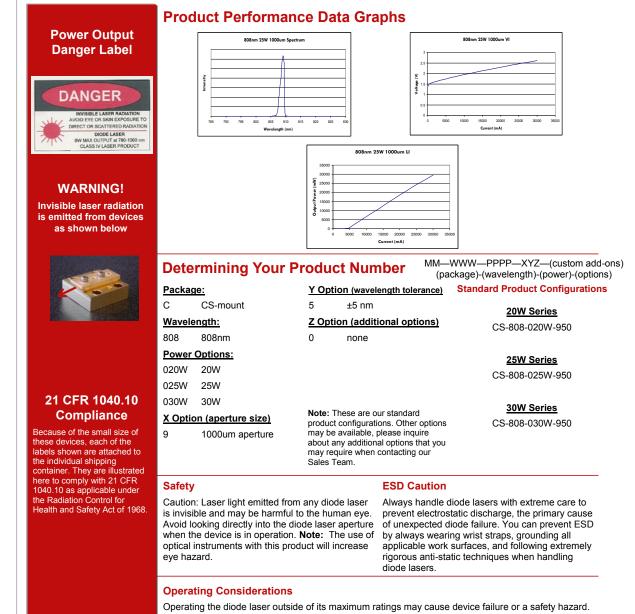
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Operating the diode laser outside of its maximum ratings may cause device failure or a safety hazard. Power supplies used with the component must be employed such that the maximum peak optical power cannot be exceeded. CW diode lasers may be damaged by excessive drive current or switching transients. When using power supplies, the diode laser should be connected with the main power on and the output voltage at zero. The current should be increased slowly while monitoring the diode laser output power and the drive current. Device degradation accelerates with increased temperature, and therefore careful attention to minimize the case temperature is advised. A proper heat-sink for the diode laser on a thermal radiator will greatly enhance laser life.

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