To request any additional information please contact us at:

Email: sales@axcelphotonics.com

Phone: (508) 481-9200



Features

- Up to 30W CW output power.
- High Quality, Reliability, & Performance

Applications

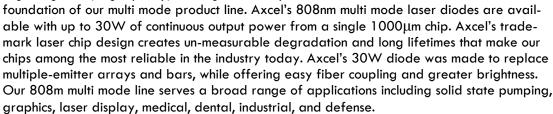
- Solid State Pumping
- Graphics
- Medical/Dental
- Laser Display
- Defense

Product Specifications

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

Description:

High brightness, high quality, and high reliability are the



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

Fiber coupled version of our 25W-30W diodes are available!

Standard Product Specifications for 808nm Multi-mode Diodes

25W Series

Parameter Unit Wavelength nm Spectrum FWHM nm Operating Power (P_o) W Operating Current (I_o) Α Operating Voltage (V_o) ν Lifetime hour deg, FWHM Vertical Far Field Parallel Far Field deg, FWHM Threshold (Ith) Α Slope Efficiency (dP/dI) W/A ۰C Storage Temp. Operating Temp. (Top) ۰C Lead Soldering Temp.(5 sec)

Min	Тур	Max	Min	Тур	
805	808	811	805	808	
-	2	4	-	2	
-	25	-	-	30	
-	30	33	-	35	
-	2.0	2.5	-	2.0	
40,000	•	-	40,000	-	
25	35	40	25	35	
8	10	12	8	10	
-	4.5	5.5	-	4.5	
1.0	1.2	-	1.0	1.2	
-40	-	80	-40	-	
-20	25	50	-20	25	
-	-	250	-	-	
-					

30W Series

Max

811

4

38

2.5

40

12

5.5

80

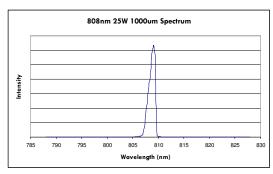
50

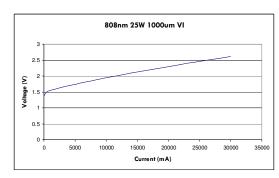
250

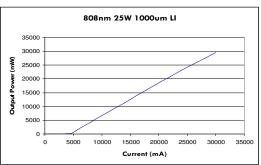
Note:

- 1) Specifications are subject to change without notice.
- 2) All Axcel Photonics products are TE polarized

808nm Multi-Mode Product Performance Data Graphs







Determining Your Product number:

CS-mount

808nm

20W

25W

30W

MM—WWW—PPPP—XYZ—(custom add-ons)

Standard Product Configurations

(package)-(wavelength)-(power)-(options)

20W Series

25W Series

30W Series

CS-808-020W-950

X Option (aperture size)

9 1000μm aperture

Y Option (wavelength tolerance) CS-808-025W-950

5 ±5 nm

Z Option (additional options)

0 none CS-808-030W-950

Please note: These are our standard product configurations. Other options may be available, please inquire about any additional options that you may require when contacting our Sales Team.

Safety

Package:

Wavelength:

Power Options:

CS

808

020W

025W

030W

Caution: Laser light emitted from any diode laser is invisible and may be harmful to the human eye. Avoid looking directly into the diode laser aperture when the device is in operation.

Note: The use of optical instruments with this product will increase eye hazard.

ESD Caution

Always handle diode lasers with extreme care to prevent electrostatic discharge, the primary cause of unexpected diode failure. You can prevent ESD by always wearing wrist straps, grounding all applicable work surfaces, and following extremely rigorous anti-static techniques when handling diode lasers.

Operating Considerations

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.

Power Output Danger Label



WARNING! Invisible laser radiation is emitted from devices as shown below



21 CFR 1040.10 Compliance

Because of the small size of these devices, each of the labels shown are attached to the individual shipping container. They are illustrated here to comply with 21 CFR 1040.10 as applicable under the Radiation Control for Health and Safety Act of 1968.