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

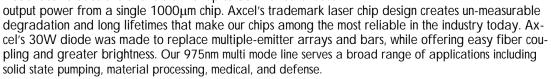
- Solid State Pumping
- Material Processing
- Medical
- Defense

Product Specifications

975nm Multi-Mode Laser Diodes 1000µm emitter (30W)

Description:

High brightness, high quality, and high reliability are the foundation of our multi mode product line. Axcel's 975nm multi mode laser diodes are available with up to 30W of continuous



Packaging options include an industry standard CS-mount. More product options are available upon request. Please view our website for mechanical drawings of all of our sub-mount, mount, and module packages.

Fiber coupled version of our 30W diodes are coming soon!

Contact us today and learn how Axcel Photonics can axcelerate your research and production!

Standard Product Specifications for 808nm Multi-mode Diodes

<u>Parameter</u> <u>Unit</u> Wavelength nm Spectrum FWHM nm Operating Power (Po) W Operating Current (I_o) Α ٧ Operating Voltage (V_o) Lifetime hour Vertical Far Field deg, FWHM **Parallel Far Field** deg, FWHM Threshold (Ith) Α Slope Efficiency (dP/dI) W/A Storage Temp. Operating Temp. (Top) ۰C Lead Soldering Temp.(5 sec)

30W Series		
<u>Min</u>	Тур	Max
970	975	980
-	3	5
-	30	•
•	37.8	43.0
-	1.8	2.2
10,000	•	•
25	35	40
8	13	14
•	4.5	5.5
0.8	0.9	•
-40	•	80
-20	25	50
-	-	250

Note: 1) Specifications are subject to change without notice.

2) All Axcel Photonics products are TE polarized

Determining Your Product number:

MM—WWW—PPPP—XYZ—(custom add-ons) Standard Product Configurations

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

30W Series

CS-975-030W-950

Package:

CS CS-mount

Wavelength:

975 975nm

Power Options:

30W 030W

X Option (aperture size)

1000µm aperture

Y Option (wavelength tolerance)

+5 nm

Z Option (additional options)

none

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

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.



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