To request any additional information please contact us at:

Email: sales@axcelphotonics.com

Phone: (508) 481-9200



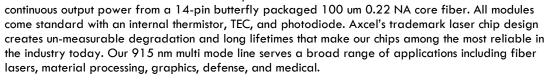
Features

- Up to 2 W CW output power from 100 um core fiber.
- High Quality, Reliability, & Performance

Product Specifications 915 nm Multi-Mode 14-Pin Butterfly Module Laser Diodes

Description:

High brightness, high quality, and high reliability are the foundation of our multi mode product line. Axcel's 915 nm multi mode laser diodes are available with up to 2 W of





- Fiber Lasers
- Material Processing
- Graphics
- Defense
- Medical

Please view our website for mechanical drawings of all of our sub-mount, mount, and module packages.

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

Performance Data for Multi-Mode 915 nm Butterfly module devices

1.5 W Series

<u>Parameter</u> <u>Unit</u> Wavelength nm Spectrum FWHM nm Operating Power (P_o) W Operating Current (I_o) mΑ ٧ Operating Voltage (V_o) Lifetime hour Threshold (Ith) Α Slope Efficiency (dP/dl) W/A ٧ **TEC Voltage TEC Current** Α Storage Temperature ۰C Operating Temperature (Top) ۰C Lead Soldering Temperature (5 sec)

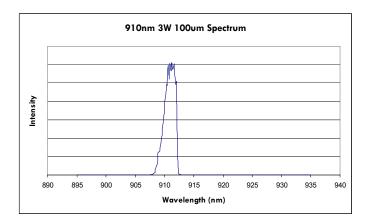
1.5 3 1.5 2.4 2.1	920 5 - 2.8 2.5		910 - -	915 3 2.0 3.1	920 5 - 3.6
3 1.5 2.4	5 - 2.8		910	3 2.0 3.1	5 - 3.6
2.4	2.8		-	2.0 3.1	3.6
2.4	2.8		-	3.1	3.6
			-		
2.1	2.5		_	•	
-	_		-	2.1	2.5
	- 1		10,000	-	-
.25	0.55		-	0.25	0.55
.70	-		0.60	0.70	•
-	3.4		-	•	2.9
-	2.1		-	•	4.0
-	80		-40	-	80
25	65		-20	25	65
-	250		-	-	250
	.70 - -	.70 - - 3.4 - 2.1 - 80 25 65	.70 - - 3.4 - 2.1 - 80 25 65	.70 - 0.60 - 3.4 2.1 - 80 -40 -25 65 -20	.70 - 0.60 0.70 - 3.4

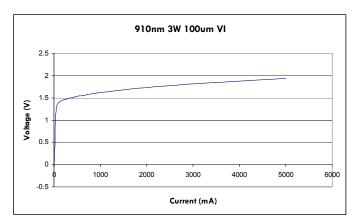
2 W Series

Note:

- $1) \ {\sf Specifications} \ {\sf are} \ {\sf subject} \ {\sf to} \ {\sf change} \ {\sf without} \ {\sf notice}.$
- 2) All Axcel Photonics products are TE polarized

915nm Multi-Mode Butterfly Module Performance Data Graphs





Determining Your Product number:

MM—WWW—PPPP—XYZ—(custom add-ons)

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

Package:

B1 14-pin Butterfly

B2 14-pin Butterfly (high profile)

Wavelength:

915 915 nm

Power Options:

1500 1.5 W 2000 2.0 W

X Option (aperture size)

1 100 μm fiber

Y Option (wavelength tolerance)

5 ±5 nm

Z Option (additional options)

A FC connector (standard FC/APC)

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.

Standard Product Configurations

1.5W Series

B1-915-1500-15A

2W Series

B2-915-2000-15A

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.