



Features

- Up to 3W CW output power.
- High Quality, Reliability, & Performance

Applications

Laser Display

Medical/Dental

Solid State Pumping

Defense

Graphics

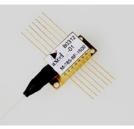
Industrial

Product Specifications

808nm Multi-Mode Butterfly Modules (1.5-3W)

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 3W of continuous output power from a 14-pin butterfly packaged fiber. Fiber is 105µcore/125µClad 0.22na. All modules come standard with an internal thermistor, TEC, and photodiode. Sheaumann's trademark laser chip design creates unmeasurable degradation free and long lifetimes that make our chips among the most reliable in the industry today. Our 808nm multi mode line serves a broad range of applications including solid state pumping, laser display, graphics, medical, dental, industrial, and defense.

More product options are available upon request. Please view our website for mechanical drawings of our module packages.

Performance Data for 808nm Multi-Mode Butterfly Modules

Parameter	<u>Unit</u>
Wavelength	nm
Spectrum FWHM	nm
Operating Power (P _o)	W
Operating Current (I _o)	А
Operating Voltage (V _o)	V
Lifetime	hour
Threshold (I _{th})	А
Slope Efficiency (dP/dI)	W/A
TEC Voltage	V
TEC Current	А
Storage Temperature	°C
Operating Temperature (Top)	°C
Lead Soldering Temperature (5 sec)	°C

Min Тур Max 808 813 803 4 _ 2 1.5 -_ -2.0 2.4 2.1 2.5 10,000 --_ 04 0.6 0.8 0.95 -3.4 2.1 _ _ -40 80 0 25 65 250

1.5W Series

3W Series

<u>Min</u>	<u>Typ</u>	Max
803	808	813
-	2	4
-	3.0	-
-	3.2	3.6
-	2.1	2.5
10,000	-	-
-	0.5	0.7
0.75	0.85	-
-	-	2.9
-	-	7.5
-40	-	80
0	25	45
-	-	250

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



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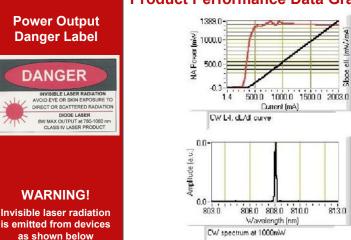
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Nordic Countries

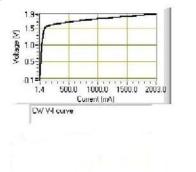
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Standard Product



Product Performance Data Graphs



Determining Your Product number

MM—WWW—PPPP—XYZ—(custom add-ons)

Package:		X Option (aperture size)		Configurations	
B1	14-pin butterfly (1-1.5W)	1	100µm fiber	1.5W Series	
B2	14-pin butterfly (3W)	Y Optio	n (wavelength tolerance)	B1-808-1500-15A	
Wavelength:		5	±5 nm	3W Series	
808	808nm	Z Option (additional options)			
Power	Options:	А	FC Connector (FC/PC)	B2-808-3000-15A	
1500	1.5W				

3000 3W

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.

(mm)

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Slope

813.0

Safety

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.

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

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.

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