

SHEAUMANN



Features

- Up to 200mW CW output power.
- High Quality, Reliability, & Performance

Applications

Telecommunication

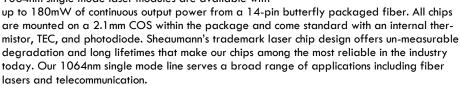
Fiber Lasers

Product Specifications

1064nm Single-Mode 14-Pin Butterfly Module Laser Diodes

Description:

High brightness, high quality, and high reliability are the foundation of our single mode product line. Sheaumann's 1064nm single mode laser modules are available with



Please view our website for mechanical drawings of all of our module packages.



lasers and refeconfindingation.

Performance Data for Single-Mode 1064nm Butterfly module devices

| <u>Unit</u> |
|-------------|
| nm |
| nm |
| mW |
| mW |
| mA |
| ٧ |
| hour |
| Α |
| ٧ |
| mA |
| W/A |
| ۰C |
| ۰C |
| ۰C |
| |

| 100mW | | | | |
|---------|------|------|--|--|
| Min | Тур | Max | | |
| 1059 | 1064 | 1069 | | |
| - | 0.50 | 2.0 | | |
| - | 100 | - | | |
| 120 | - | - | | |
| - | 250 | 300 | | |
| | 2.1 | 2.5 | | |
| 100,000 | - | - | | |
| - | - | 2.0 | | |
| | - | 3.2 | | |
| - | 50 | 100 | | |
| 0.50 | 0.60 | - | | |
| -40 | - | 80 | | |
| 0 | 25 | 70 | | |
| - | - | 250 | | |
| | | | | |

| <u>180mW</u> | | | | |
|--------------|------|------|--|--|
| Min | Тур | Max | | |
| 1059 | 1064 | 1069 | | |
| - | 0.50 | 2.0 | | |
| - | 180 | - | | |
| 220 | | - | | |
| - | 384 | 484 | | |
| - | 2.1 | 2.5 | | |
| 100,000 | - | - | | |
| - | - | 2.0 | | |
| - | • | 3.2 | | |
| - | 50 | 100 | | |
| 0.50 | 0.60 | - | | |
| -40 | - | 80 | | |
| 0 | 25 | 70 | | |
| - | - | 250 | | |

1 20mW

| 200mW | | | | |
|------------|------|------------|--|--|
| <u>Min</u> | Тур | <u>Max</u> | | |
| 1059 | 1064 | 1069 | | |
| - | 0.50 | 2.0 | | |
| | 200 | - | | |
| 240 | - | - | | |
| | 450 | 500 | | |
| • | 2.1 | 2.5 | | |
| 100,000 | - | - | | |
| - | - | 2.0 | | |
| | - | 3.2 | | |
| - | 50 | 100 | | |
| 0.50 | 0.60 | - | | |
| -40 | - | 80 | | |
| 0 | 25 | 70 | | |
| - | - | 250 | | |

Note:

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

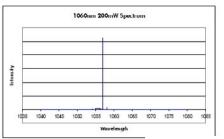
Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk

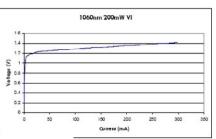
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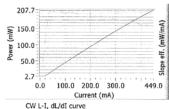
www.lasercomponents.se



1064nm Single Mode Butterfly Module Performance Data Graphs







Determining Your Product number:

MM—WWW—PPPP—XYZ—(custom add-ons) (package)-(wavelength)-(power)-(options)

Standard Product Configurations

100mW Series BF-A64-0100-P50

Package:

14-pin butterfly

Wavelength:

A64 1064nm

Power Options:

0100 100mW 0180 180mW 0200 200mW X Option (aperture size)

PM fiber for module

Y Option (wavelength tolerance)

+5 nm

Z Option (additional options)

none

200mW Series BF-A64-0200-P50

180mW Series BF-A64-0180-P50

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.

ESD Caution

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.

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

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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