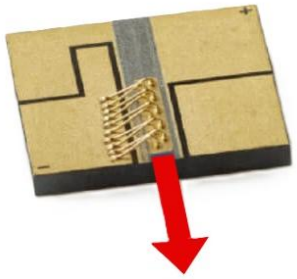
S Series Submounts

808nm 50mW

Single Mode, Continuous Wave (CW)



Optical Electrical Characteristics **

Parameter	Unit	50mW Typ	50mW Max
Wavelength	nm	808	-
Operating Power	mW	50	-
Operating Current*	mA	85	110
Operating Voltage	V	1.9	2.2
Threshold Current	mA	30	50
Slope Efficiency	W/A	0.9	-
Vertical Far Field @FWHM	deg^{O}	18	-
Horizontal Far Field @FWHM	deg^{O}	8	-

Absolute Maximum Ratings

Parameter	Unit	Condition	Min	Typ	Max
Operational Temperature***	^{O}C	CW	-20	25	50
Storage Temperature	^{O}C		-40	25	85

Please note that CW lasers may be damaged by excessive drive current or switching transients.
* Data is based on CW operation at 25^{o} C.
** Device degradation accelerates with increased temperature.

C4

C4-808-0050-XXX

Features &Options

- Single spatial mode
- AlN carrier, AuSn bonding
- Optional thermistor solder pads.

This datasheet is for general reference only. Specifications are subject to change without notice. Product subject to availability.
Visit sheaumann.com or contact sales@sheaumann.com for more information on products and services.

Safety Warning
Laser light emitted from any laser diode is invisible and may be harmful to the human eye. Avoid looking directly into the laser aperture when the device is in operation.
The use of optical instruments with this product will increase eye hazard.

ESD Warning
The primary cause of diode failure is unexpected electrostatic discharge. To help prevent device failures, the user should always wear an ESD wrist strap, ground all applicable work surfaces and follow anti-static techniques when handling diode lasers.

Operation Consideration
Operating the laser beyond the limits of the provided specifications may result in device failure or a safety hazard and will void warranty Devices must be passively or actively cooled in accordance with the provided specifications. Failure to comply with heatsinking requirements may result in device failure.

Warranty
Due to the delicate nature of laser diodes, Sheaumann offers a limited warranty for all products. Please refer to our Terms and Conditions for full details.

Compliance Notice
These products are intended solely as a component of an electronic product and are not certified in accordance with IEC 60825-1 or 21 CFR 1040.10/21 CFR 1040.11. These products are subject to Export
Administration Regulations (EAR) and will require a Destination Control Statement or End User Agreement for each sales order.

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