



S Series Submounts 785nm 100µm emitter Multimode, Continuous Wave (CW)





Optical Electrical Characteristics (T_c=25°C)

		1W		
Parameter	Unit	Тур	Max	
Wavelength	nm	785	-	
Operating Power	W	1	-	
Operating Current*	А	1.3	1.6	
Operating Voltage	V	1.9	2.2	
Threshold Current	mA	400	600	
Slope Efficiency	W/A	1	-	
Vertical Far Field @FWHM	deg°	25	-	
Horizontal Far Field @FWHM	dego	8	-	

Features

- In bonding, Cu submount
- Optional thermistor
- · Ultra low & high AR coating options

Absolute Maximum Ratings**

Parameter	Unit	Condition	Min	Тур	Max
Operational Temperature***	°C	CW	-20	25	50

- Please note that CW lasers may be damaged by excessive drive current or switching transients.
 Data is based on CW operation at 25°C.
 Even be egradation accelerates with increased temperature.

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.

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.

Laser Operation Consideration

Coperating 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 failu-

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.

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



Certified to







CLASS IV LASER PRODUCT

Germany & Other Countries

Laser Components GmbH Tel: +49 8142 2864 - 0 Fax: +49 8142 2864 - 11 info@lasercomponents.com www.lasercomponents.com

Laser Components S.A.S. Tel: +33 1 39 59 52 25 Fax: +33 1 39 59 53 50 info@lasercomponents.fr www.lasercomponents.fr

United Kingdom

Laser Components (UK) Ltd. Tel: +44 1245 491 499 Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk Nordic Countries

Laser Components Nordic AB Tel: +46 31 703 71 73 Fax: +46 31 703 71 01 info@lasercomponents.se www.lasercomponents.se

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