



Features Pro

- Up to 10W CW output power.
- High Quality, Performance & Reliability

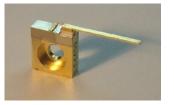
Applications

- Solid State Pumping
- Material Processing
- Medical
- Defense

Product Specifications

975nm Multi-Mode Laser Diodes 400µm emitter (8W-10W)

Description:



High brightness, high quality, and high reliability are the foundation of our multi mode product line. Axcel's 975nm multi mode laser diodes are available with up to 10W of continuous output power from a 400µm single emitter chip. Axcel's trademark laser chip design creates un-measurable degradation and long lifetimes that make our chips among the most reliable in the industry today. Our 975nm multi mode line serves a broad range of applications including solid state pumping, material processing, medical, and defense.

These diodes are available on an industry standard C-mount . More product options are available upon request. Please view our website for mechanical drawings of all of our sub-mounts.

10W Series

Typ Max

975 980

3 5

10.0

12.6 14.0

1.5 2.0

- -

30 35

8 11

1.5 1.8

0.9 -

25 50

- 250

-

- 80

<u>Min</u>

970

-

-

0,000

-

-

-0.8

-40

-20

-

		 8W Series				
Parameter	<u>Unit</u>	Min	Тур	<u>Max</u>		
Wavelength	nm	970	975	980		
Spectrum FWHM	nm	-	3	5		
Operating Power (P _o)	w	-	8.0	-		
Operating Current (I _o)	Α	-	10.0	11.0		
Operating Voltage (V _o)	v	-	1.5	2.0		
Lifetime	hour	10,000	-	-		
Vertical Far Field	deg, FWHM	-	30	35		
Parallel Far Field	deg, FWHM	-	8	11		
Threshold (I _{th})	Α	-	1.5	1.8		
Slope Efficiency (dP/dl)	W/A	0.8	0.9	-		
Storage Temp.	۰C	-40	-	80		
Operating Temp. (T _{op})	۰C	-20	25	50		
Lead Soldering Temp.(5 sec)	∘c	-	-	250		

Standard Product Specifications for 975nm Multi-mode Diodes

Note:

1) Specifications are subject to change without notice.

2) All Sheaumann Laser products are TE polarized

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

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France

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

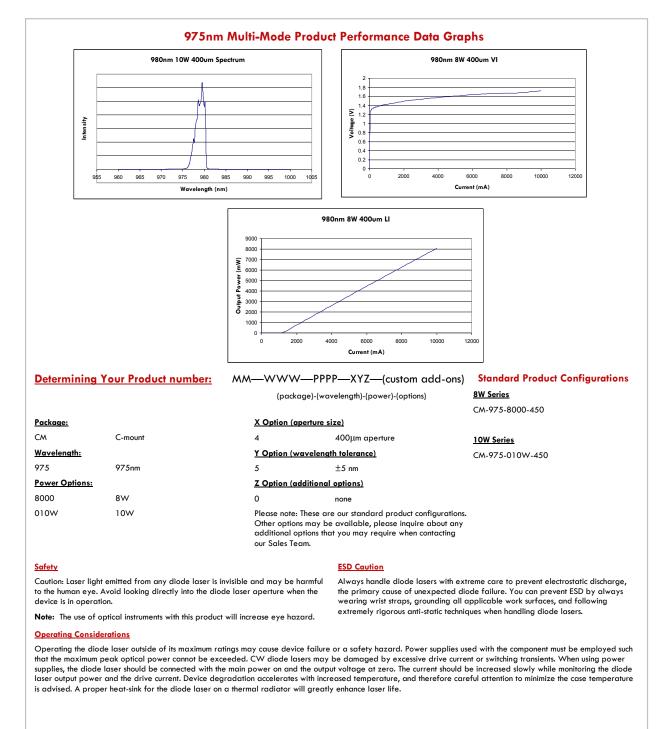
United Kingdom

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





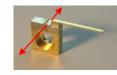
WARNING! Invisible laser radi ation is emitted from devices as shown below Power Output Danger Label

21 CFR 1040.10 Compliance

shown are attached to the individual shipping container. They are illustrated here to comply with 21 CFR 1040.10 as applica-ble under the Radiation Control for Health and Safety Act of 1968.

DANGER ECT OR SCA

DIODE LASER SW MAX OUTPUT at 780-1060 nm CLASS IV LASER PRODUCT



Because of the small size of these devices, each of the labels

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Nordic Countries

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