To request any additional information please contact us at:

Email: sales@axcelphotonics.com

Phone: (508) 481-9200



Features

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

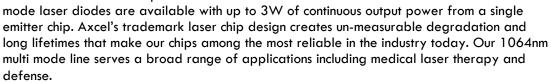
Product Specifications 1064nm Multi-Mode Laser Diodes

100μm emitter (1W-3W)

Description:

drawings of all of our sub-mounts.

High brightness, high quality, and high reliability are the foundation of our multi mode product line. Axcel's 1064nm multi



Packaging options include industry standard 9mm TO-can, C-mount, Q-mount and B-mount. More product options are available upon request. Please view our website for mechanical

Applications

- Medical
- Defense

Standard Product Specifications for 1064nm Multi-mode Diodes

1W Series

<u>Parameter</u>	<u>Unit</u>
Wavelength	nm
Spectrum FWHM	nm
Operating Power (P _o)	W
Operating Current (I _o)	Α
Operating Voltage (V _o)	٧
Lifetime	hour
Vertical Far Field	deg, FWHM
Parallel Far Field	deg, FWHM
Threshold (I _{th})	Α
Slope Efficiency (dP/dl)	W/A
Storage Temp.	۰C
Operating Temp. (T _{op})	۰C
Lead Soldering Temp.(5 sec)	۰C

<u>Min</u>	Тур	<u>Max</u>
1059	1064	1069
-	3	5
-	1.0	-
-	1.4	1.6
•	1.9	2.2
10,000	-	-
-	30	35
-	8	11
-	0.40	0.70
0.8	0.9	-
-40	-	80
-20	25	50
-	-	250

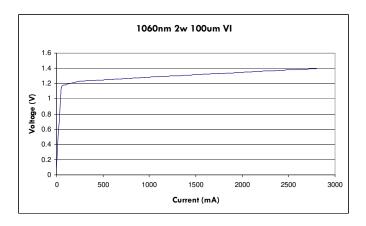
2W Series			
<u>Min</u>	Тур	Max	
1059	1064	1069	
-	3	5	
-	2.0	-	
-	2.4	2.8	
-	1.9	2.2	
10,000	•	-	
-	30	35	
-	8	11	
-	0.40	0.70	
0.8	0.9	-	
-40	-	80	
-20	25	50	
	-	250	

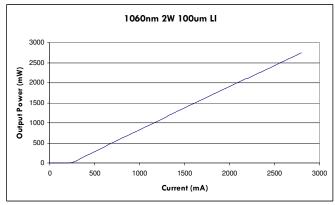
3W Series		
<u>Min</u>	Тур	Max
1059	1064	1069
-	3	5
-	3.0	-
-	3.3	3.5
-	1.9	2.2
10,000	ı	-
-	30	35
-	8	11
-	0.40	0.70
0.8	0.9	-
-40	-	80
-20	25	50
-	-	250

Note:

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

1064nm Multi-Mode Product Performance Data Graphs





Determining Your Product number:

MM—WWW—PPPP—XYZ—(custom add-ons)

(package)-(wavelength)-(power)-(options)

Standard Product Configurations

Package:	
CM	C-mount
ВМ	B-mount
QA	Q-mount
M9	9mm TO-can
C4	chip on 4mm submount
Wavelength:	
A64	1064nm
Power Options:	
1000	1W
2000	2W
3000	3W

X Option (aperture size)		
1	100μm aperture	
Y Option (wavelength tolerance)		
5	±5 nm	
Z Option (additional options)		
0	none	
P	photodiode	
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.		

	1W Series	3W Series
	CM-A64-1000-150	CM-A64-3000-150
	BM-A64-1000-150	BM-A64-3000-150
	QA-A64-1000-150	QA-A64-3000-150
	M9-A64-1000-150	C4-A64-3000-150
	M9-A64-1000-15P	
ions.	2W Series	
any	CM-A64-2000-150	
•	BM-A64-2000-150	
	QA-A64-2000-150	

<u>Safety</u>

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 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 laser life.

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.