# SHEAUMANN



### **Features**

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

# **Product Specifications** 1064nm Multi-Mode Laser Diodes 100μm emitter (1W-3W)



# **Description:**

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



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 drawings of all of our sub-mounts.

**Applications** 

- Medical
- Defense

## Standard Product Specifications for 1064nm Multi-mode Diodes

<u>Unit</u>
nm
nm
W
Α
٧
hour
deg, FWHM
deg, FWHM
Α
W/A
۰c
۰C
۰c

1W Series			
Min	Тур	Max	
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
-40	-	80	
-20	25	50	
-	-	250	

2W Series			
Min	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			
	Min	Тур	Max	
	1059	1064	1069	
	-	3	5	
	-	3.0	-	
	-	3.3	3.5	
	-	1.9	2.2	
	10,000	-	-	
	-	30	35	
	-	8	11	
	-	0.40	0.70	
	0.8	0.9	-	
	-40	-	80	
	-20	25	50	
	-	-	250	

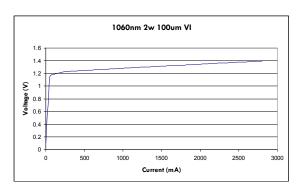
Note:

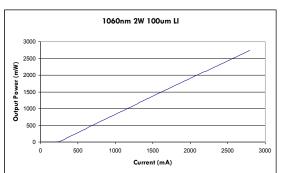
- 1) Specifications are subject to change without notice.
- 2) All Sheaumann Laser products are TE polarized

www.lasercomponents.se



### 1064nm Multi-Mode Product Performance Data Graphs





## **Determining Your Product number:**

### MM—WWW—PPPP—XYZ—(custom add-ons)

X Option (aperture size)

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

 $100\mu m$  aperture

# Standard Product Configurations 1W Series 3W Series

CM-A64-3000-150

CM-A64-1000-150

QA-A64-2000-150

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

Y Option (wavelength tolerance)			BM-A64-1000-150	BM-A64-3000-150
	5	±5 nm	QA-A64-1000-150	QA-A64-3000-150
	Z Option (additional	options)	M9-A64-1000-150	C4-A64-3000-150
	0	none	M9-A64-1000-15P	
	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		2W Series		
		CM-A64-2000-150		
	our Sales Team.	,	BM-A64-2000-150	

#### Safety

#### 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





### 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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