# SHEAUMANN



### **Features**

- Up to 10W CW output power from a 400 μm .22NA and 200 µm .22NA core fiber
- High Quality, Reliability, & **Performance**

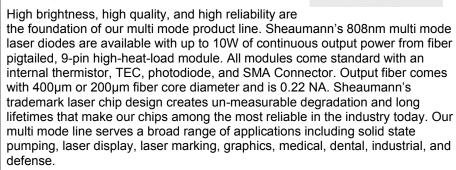
## **Applications**

- Defense
- Laser Marking
- **Graphics**
- Medical/Dental
- Laser Display
- Solid State Pumping

# **Product Specifications**

808nm Multi-Mode Laser High-Heat-Load Modules w/ Fiber Pigtailed Package

## Description



Please view our website for mechanical of drawings of all of our modules with fiber.

### Performance Data for 808nm Multi-Mode HHL Fiber Modules

### <u>Parameter</u> <u>Unit</u> Wavelength nm Spectrum FWHM nm Operating Power (Po) W Operating Current (I<sub>o</sub>) Α V Operating Voltage (Vo) Lifetime hour Threshold (Ith) Α Slope Efficiency (dP/dI) W/A ٥С Storage Temperature °С Operating Temperature (Top) TEC Voltage V TEC Current Α

10W 20	10W 200µm fiber				
<u>Min</u>	<u>Typ</u>	Max			
803	808	813			
-	2	4			
-	10	-			
-	12	14			
-	2.5	2.8			
10,000	-	-			
-	2.4	2.8	- [		
0.85	1.0	-			
-40	-	80			
0	25	55			
-	-	8.6			
-	-	3.8			

	10W 400µm fiber				
	<u>Min</u>	Тур	Max		
	803	808	813		
	-	2	4		
	-	10	-		
	-	12	14		
	-	2.5	2.8		
	10,000	-	-		
-	-	2.4	2.8		
	0.85	1.0	-		
	-40	-	80		
	0	25	55		
	-	-	8.6		
	-	-	3.8		

10W 400um fibor

Note: Specifications are subject to change without notice. All Sheaumann Laser products are TE polarized

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Standard Product

**Configurations** 

10W Series

HF-808-010W-25C

HF-808-010W-45C

## **Power Output Danger Label**



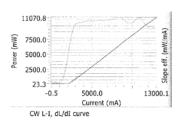
### **WARNING!**

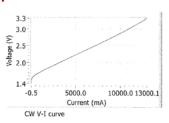
Invisible laser radiation is emitted from devices as shown below

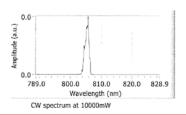
## 21 CFR 1040.10 Compliance

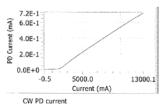
Because of the small size of these devices, each of the labels shown are attached to the individual shipping container. They are illustrated here to comply with 21 CFR 1040.10 as applicable under the Radiation Control for Health and Safety Act of 1968

## **Product Performance Data Graphs**









## **Determining Your Product number**

MM—WWW—PPPP—XYZ—(custom add-ons) (package)-(wavelength)-(power)-(options)

Package: HHL package 200µm fiber

### Wavelength:

808nm 808

(9pin, fiber, TEC, PD, Thermistor)

## **Power Options:**

010W 10W

## X Option (aperture size)

400µm fiber

## Y Option (wavelength tolerance)

5 ±5nm

### **Z** Option (additional options)

SMA Connector C

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.

## Safety

Caution: Laser light emitted from any diode laser is invisible and may be harmful to the human eve. 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

### **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.

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