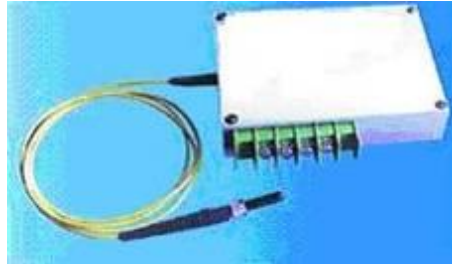




## T80H-P2 Series

### 808nm Fiber Coupled Laser Diodes, 5W-10W, MM Fiber, Multimode Beam



#### Overview

The Lasermate T80H-P2 series is an 808nm wavelength, fiber coupled laser diode module offering up to 10W output power through a 400um fiber. The laser is designed for use in laser pumping, medical usage, printing, heating, material processing, and marking applications.

#### Features

- 808nm laser diode
- Uncooled fiber-coupled CW module
- Multimode fiber output with ST/SMA connectors
- Optical output power 5W to 10W

#### Applications

- Laser pumping
- Medical usage
- Printing
- Heating
- Material processing
- Marking

#### Product Overview

The following table lists the available part numbers, as well as the wavelength, output power, operating current, fiber core size, and connector of each of the part numbers.

Part Number	Wavelength	Output Power	Operating Current	Fiber Core Size	Connector
T80H-P2-ST5W	808nm	5W	1200mA	400um	ST
T80H-P2-SMA5W	808nm	5W	1200mA	400um	SMA905
T80H-P2-ST10W	808nm	10W	2500mA	400um	ST
T80H-P2-SMA10W	808nm	10W	2500mA	400um	SMA905

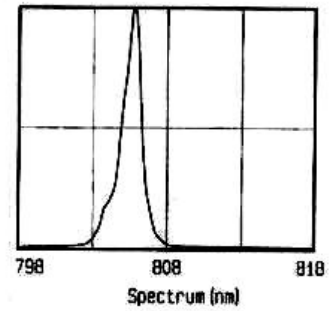
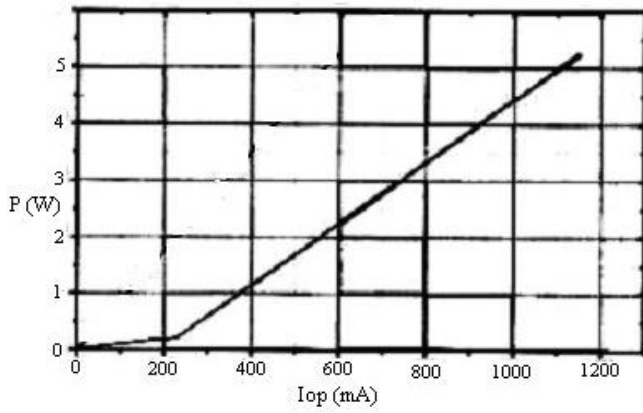
**Specifications (25°C)**

<b>Optical Specifications</b>		
CW Output Power from Fiber	5W	10W
Central Wavelength	800 - 820nm	
Spectral Width	<5nm	
Wavelength Temperature Coefficient	0.3nm/°C	
<b>Fiber Characteristics</b>		
Fiber Core Size	400µm	
N.A.	0.22	
Fiber Length	1m	
Connector	ST, SMA905	
<b>Electrical Characteristics</b>		
Slope Efficiency	>5W/A	
Threshold Current	250mA	500mA
Operating Current	1200mA	2500mA
Operating Voltage	<14V	
Series Resistance	<1.4Ω	

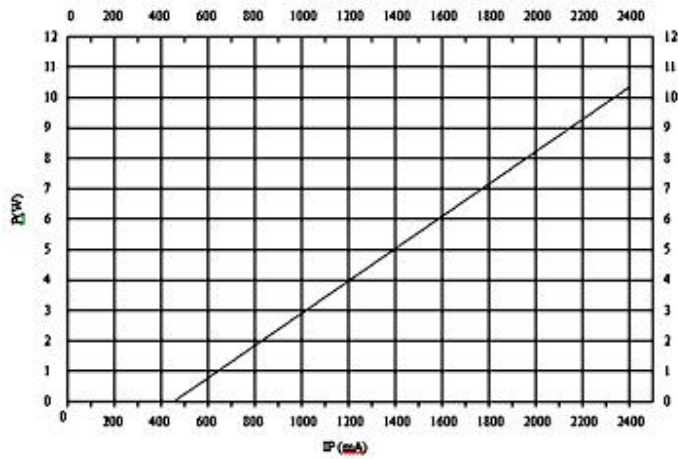


### Typical Characteristics

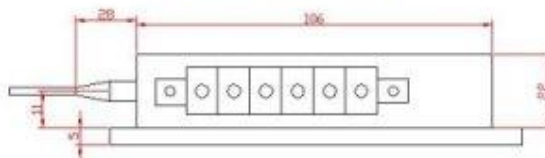
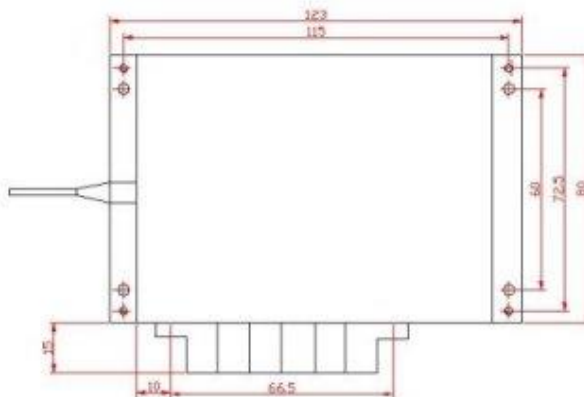
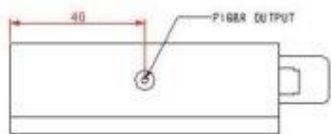
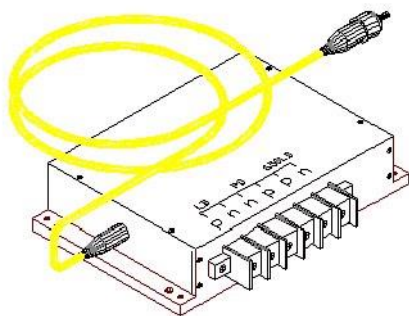
#### T80H-P2-X5W



#### T80H-P2-X10W



### Mechanical Outline (unit: mm)



### Additional Notes

- The laser diodes are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to [FDA Performance Standards for Light-Emitting Products](#) for detailed information.
- Specifications are subject to change without notice.