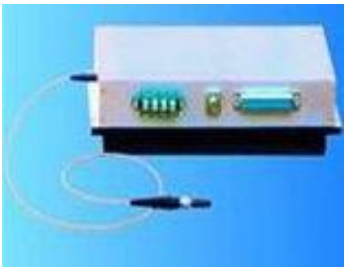
T98H-P3 Series
980nm Fiber Coupled Laser Diodes, 12W-22W, MM Fiber, Multimode Beam



Overview

The Lasermate T98H-P3 series is a 980nm wavelength, fiber coupled laser diode module offering up to 22W output power through a 700um fiber. The laser is designed for use in heating, medical usage, material processing, and marking applications.

Features

- 980nm laser diode
- Uncooled fiber-coupled CW module
- Multimode fiber output with ST/SMA connectors
- Optical output power 12W to 22W

Applications

- Medical usage
- Heating
- Material processing
- Marking

Product Overview

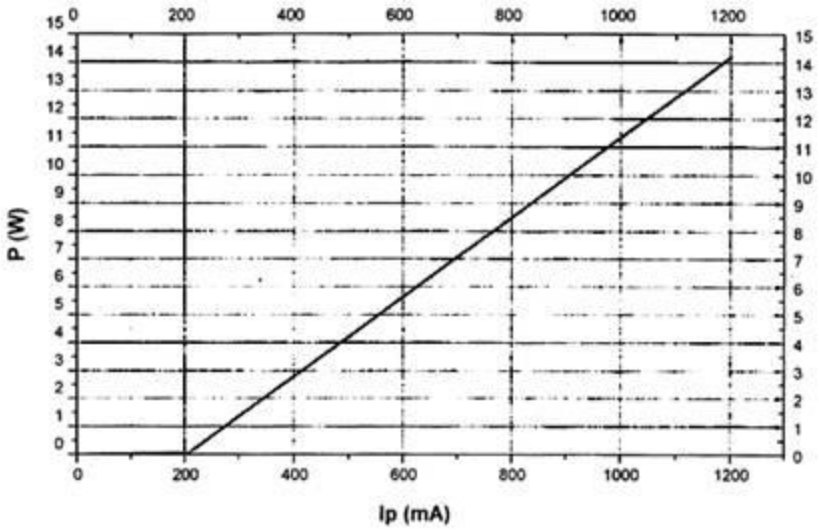
The following table lists the available part numbers, as well as the wavelength, output power, operating current, fiber core size, and connector of each of the part numbers.

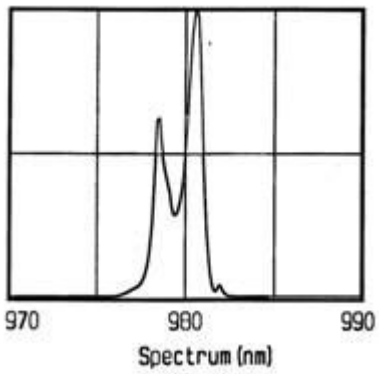
Part Number	Wavelength	Output Power	Operating Current	Fiber Core Size	Connector
T98H-P3-ST12W	980nm	12W	1250mA	700um	ST
T98H-P3-SMA12W	980nm	12W	1250mA	700um	SMA905
T98H-P3-ST22W	980nm	22W	2450mA	700um	ST
T98H-P3-SMA22W	980nm	22W	2450mA	700um	SMA905

Specifications (25°C)

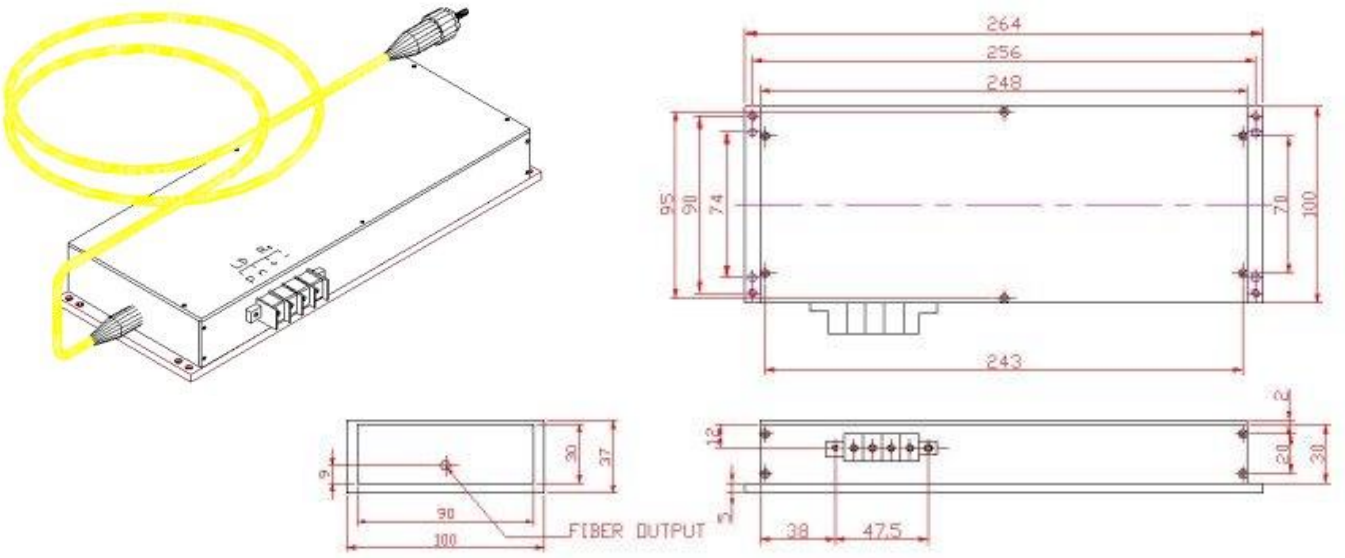
Optical Specifications		
CW Output Power from Fiber	12W	22W
Central Wavelength	975+/-15 nm	
Spectral Width	<7nm	
Wavelength Temperature Coefficient	0.4nm/°C	
Fiber Characteristics		
Fiber Core Size	700µm	
N.A.	0.22	
Fiber Length	1m	
Connector	ST, SMA905	
Electrical Characteristics		
Slope Efficiency	>13W/A	>11W/A
Threshold Current	≤250mA	≤450mA
Operating Current	≤1250mA	≤2450mA
Operating Voltage	<36V	
Series Resistance	<9Ω	<4.5Ω
Operating Temperature	-10 to 60°C	
Storage Temperature	≤25°C	

Typical Characteristics





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.