

## 445nm 20W Multi-mode Fiber Coupled Laser Diode

**Features:**

- 450nm
- 400um Multi-Mode Fiber
- P5 Package
- Photodiode Optional
- TE Cooler Optional

**Applications:**

- Medical Laser Treatment
- Biological Laser
- Others



WAVESPECTRUM can offer high stability fiber coupled laser module. The fiber types can be single-mode fiber (SMF), polarization maintaining fiber (PMF) and multimode fiber (MMF). We choose the world's top level laser chips in making the lasers to ensure the high quality. And the lasers will undergo severe restricted aging and testing before sending to the customer. At present, we can offer the pigtailed laser products with the wavelength range of 375nm ~ 1920nm, and the output power range is from 1mW to 50W. We adopt the unique technical scheme to makes the laser and the lasers are of high stability and low noise. For single-mode fiber (SMF) and polarization maintaining fiber (PMF) coupling laser, the light spot is single transverse mode Gaussian beam. And the polarization extinction ratio can reach greater than 20dB (PER) as per customer's requirements.






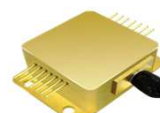

WAVESPECTRUM can offer various wavelengths listed as below:: 375nm, 405nm, 445nm/450nm, 465nm, 488nm, 505nm/510nm, 515nm/520nm/525nm, 633nm, 635nm/638nm/640nm/642nm, 650nm/658nm/660nm, 670nm, 685nm/690nm, 705nm, 730nm, 755nm/760nm/770nm, 780nm/785nm, 795nm, 800nm/808nm/810nm, 820nm/830nm, 840nm/850nm/860nm, 880nm, 905nm,915nm, 940nm, 976nm/980nm, 1060nm/1064nm, 1210nm, 1270nm, 1280nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1430nm, 1450nm, 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm, 1610nm, 1625nm, 1650nm, 1720nm, 1900nm, 1920nm.

WAVESPECTRUM can provide a variety of laser products: single mode laser diode, multimode laser diode, single mode fiber coupling laser modules, polarization maintaining fiber coupled laser modules, multi-mode pigtailed laser modules, fiber detachable laser module, RGB white fiber coupled laser module, medical laser module, turnkey fiber coupled laser system, etc. The main packages for the lasers can be: TO18 | TO5 | C-mount | TO3 | E-mount | H-mount | COS | 2-pin | 4-pin | 9-pin | 14-pin.

WAVESPECTRUM - welcome to to inquiry any time!

Pls visit our Website for more info.: <http://www.wavespectrum-laser.com.cn/index.html>

### MORE CHOICES, MORE IDEAS

     												
<b>Laser Diode</b>	<b>Fiber Coupled Laser Module</b>	<b>Fiber Receptacle LD</b>	<b>Laser System</b>	<b>RGB Pigtailed White Laser</b>	<b>Medical Laser Module</b>							
375nm	405nm	445nm	465nm	488nm	505nm	520nm	525nm	635nm	650nm	660nm	670nm	680nm
685nm	760nm	785nm	790nm	808nm	830nm	850nm	860nm	880nm	905nm	915nm	940nm	980nm
1064nm	1210nm	1270nm	1280nm	1290nm	1310nm	1330nm	1350nm	1370nm	1390nm	1410nm	1430nm	1450nm
1470nm	1490nm	1510nm	1530nm	1550nm	1570nm	1590nm	1610nm	1625nm	1650nm	1720nm	1900nm	1920nm
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  </div> <div> <p><b>WAVESPECTRUM LASER GROUP LIMITED</b></p> <p>Email: <a href="mailto:sales@wavespectrum-laser.com.cn">sales@wavespectrum-laser.com.cn</a></p> <p>Tel.: +86 22 8793 1118</p> <p>Web.: <a href="http://en.wavespectrum-laser.com.cn">http://en.wavespectrum-laser.com.cn</a></p> </div> </div>												



## 445nm 20W Multi-mode Fiber Coupled Laser Diode

Part Number		WSLX-445-020-400M-H		
PARAMETER	SYMBOL	VALUE	UNIT OF MEASURE	
<b>Reverse Voltage</b>	$V_r$	<b>2.0</b>	<b>V</b>	
<b>Operating Temperature</b>	$T_{op}$	<b>0~+60</b>	<b>°C</b>	
<b>Storage Temperature</b>	$T_{stg}$	<b>-40~+85</b>	<b>°C</b>	
<b>Lead Soldering Temperature (10 sec.)</b>	$T_{ls}$	<b>260</b>	<b>°C</b>	
Typical Specification (@25°C)		Min.	Typical Value	Max.
<b>Optical Specifications</b>	<b>Center Wavelength</b>	<b>450nm+/-15nm</b>		
	<b>Output Power</b>	----	<b>20W</b>	----
	<b>Spectral Width(FWHM)</b>	----	<b>8.0nm</b>	----
	<b>Wavelength Temp. Coefficient</b>	<b>0.05nm/°C</b>		
	<b>Laser Type</b>	<b>FP</b>		
<b>Fiber Specifications</b>	<b>Fiber Core</b>	<b>400um</b>		
	<b>N.A.</b>	<b>0.22</b>		
	<b>Fiber Type</b>	<b>Multi-mode Fiber</b>		
	<b>Fiber Length</b>	<b>&gt;80cm</b>		
	<b>Fiber Connector</b>	<b>FC/SMA905/SC/ST</b>		
<b>Electrical Specifications</b>	<b>Threshold Current</b>	----	<b>0.3A</b>	<b>0.5A</b>
	<b>Operating Current</b>	----	<b>3.0A</b>	<b>3.3A</b>
	<b>Operating Voltage</b>	----	<b>36V</b>	<b>44V</b>
<b>Photodiode Specifications</b>	<b>Photodiode</b>	<b>Without</b>		
	<b>PD Current</b>	----	----	----
	<b>PD Reverse Voltage (Max. )</b>	----		
<b>TE Cooler Specifications</b>	<b>TEC Current (Max.)</b>	----		
	<b>TEC Voltage (Max.)</b>	----		
<b>Thermistor</b>	<b>Thermistor (@25°C)</b>	----		
<b>Other Specifications</b>	<b>Package</b>	<b>P5</b>		
	<b>Recommended Operating Temp.</b>	<b>25°C</b>		



## 445nm 20W Multi-mode Fiber Coupled Laser Diode

**Product Package View:**

**P5 Package View:**

**(Part Number: WSLX-445-020-400M-H)**

