


**445nm~450nm 40mW Coaxial Pigtailed Laser Diode with Single Mode Fiber| Blue LD**  
**445nm | Single Mode Blue Diode Laser Module | 450nm Fiber Coupled LD| 3um UV SM Fiber**  
 WSLP-445-040m-4                      Wavespectrum Laser Group                      www.wavespectrum-laser.com

**450nm Pigtailed Diode Laser    40mW/SMF**                      en.wavespectrum-laser.com.cn

| PARAMETER                            | SYMBOL    | VALUE   | UNIT |
|--------------------------------------|-----------|---------|------|
| Reverse Voltage                      | $V_r$     | 2.0     | V    |
| Operating Temperature                | $T_{op}$  | -10~+70 | °C   |
| Storage Temperature                  | $T_{stg}$ | -40~+85 | °C   |
| Lead soldering temperature (10 sec.) | $T_{is}$  | 260     | °C   |

|  |  |
|--|--|
| <b>Features:</b><br><ul style="list-style-type: none"> <li><span style="color: yellow;">●</span> 450nm</li> <li><span style="color: yellow;">●</span> 3um UV SM Fiber</li> <li><span style="color: yellow;">●</span> Coaxial or B82 Package</li> </ul> |  |
| <b>Applications:</b><br><ul style="list-style-type: none"> <li><span style="color: yellow;">●</span> Medical Laser Treatment</li> <li><span style="color: yellow;">●</span> Printing</li> <li><span style="color: yellow;">●</span> Others</li> </ul>  |  |

| Specifications                  | WSLP-445-040m-4 |       |       |
|---------------------------------|-----------------|-------|-------|
|                                 | Min             | Type  | Max   |
| Center Wavelength@25℃           | 440nm           | 450nm | 460nm |
| Spectral Width (FWHM)           | ----            | 2.0nm | ----  |
| Output Power                    | ----            | 40mW  | ----  |
| Fiber Type                      | 3um SM Fiber    |       |       |
| Recommend Operating Temperature | 25℃             |       |       |
| Monitor Current                 | ----            | ----  | ----  |
| PD Reverse Voltage              | ----            | ----  | ----  |
| Fiber Connector                 | FC/SC/SMA905    |       |       |
| Fiber Length                    | >80cm           |       |       |
| Threshold Current               | ----            | 25mA  | 55mA  |
| Operating Current               | ----            | 135mA | 155mA |
| Operating Voltage               | ----            | 6.0V  | 7.0V  |
| Package Style                   | Coaxial or B82  |       |       |



**Coaxial Package View: (Part Number: WSLP-445-040m-4)**

**B82 Package View: (Part Number: WSLP-445-040m-4-B)**

**PIN Bottom View:**


|          |              |
|----------|--------------|
| <b>1</b> | <b>LD(+)</b> |
| <b>2</b> | <b>GND</b>   |
| <b>3</b> | <b>LD(-)</b> |



Electrically shorten LD module and store in non-extreme conditions.  
Suggest using the constant current power supply.

