

# 1450nm 500mW Fiber Coupled Laser Diode Module | Built-in TEC Cooler | 14-Pin Butterfly Package

1450nm 0.5W|14-PIN (BTF) Package| 105um 200um 400um Fiber Core| High Power LD | Built-in PD

WSLX-1450-500m-M-H14-T-PD

Wavespectrum Laser Group

www.wavespectrum-laser.com

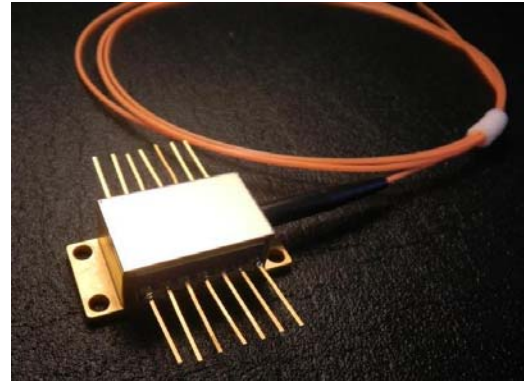
| PARAMETER                            | SYMBOL    | VALUE     | UNIT |
|--------------------------------------|-----------|-----------|------|
| Reverse Voltage                      | $V_r$     | 2.0       | V    |
| Operating Temperature                | $T_{op}$  | +10 ~ +30 | °C   |
| Storage Temperature                  | $T_{stg}$ | -20 ~ +80 | °C   |
| Lead soldering temperature (10 sec.) | $T_{is}$  | 260       | °C   |

## Features:

- 1450nm
- Multimode Fiber
- 14-Pin Package
- Built-in TEC Cooler
- Built-in Photodiode

## Applications:

- Medical Laser Treatment
- Others



## Specifications

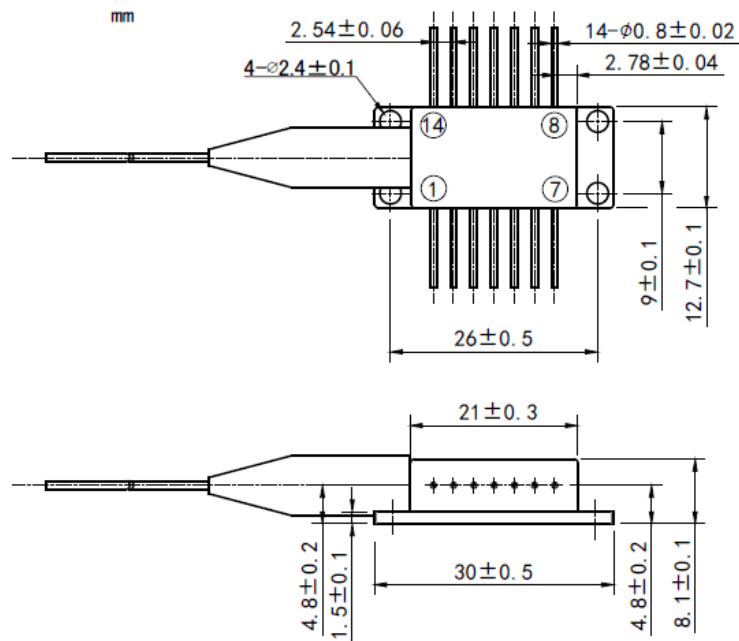
### WSLX-1450-500m-M-H14-T-PD

|                                       | Min.                         | Type       | Max.  |
|---------------------------------------|------------------------------|------------|-------|
| Center Wavelength@25°C                | 1450nm ± 40nm                |            |       |
| Spectral Width (FWHM)                 | -----                        | 8nm        | ----- |
| Output Power                          | -----                        | 500mW      | ----- |
| Temperature Coefficient of Wavelength |                              | 0.7nm / °C |       |
| Threshold Current (Typ.)              | 0.5A                         |            |       |
| Operating Current (Typ.)              | 3.0A                         |            |       |
| Operating Voltage                     | 1.5V                         |            |       |
| Recommended Case Temperature          | 25°C                         |            |       |
| TEC Max. Current                      | 2A                           |            |       |
| TEC Max. Voltage                      | 8V                           |            |       |
| Thermistor                            | 10K                          |            |       |
| Fiber Core Diameter                   | 105um (200um 400um Optional) |            |       |
| Fiber Length                          | >80cm                        |            |       |
| Connector Type                        | SMA905 / ST / FC             |            |       |
| Package Style                         | 14-Pin                       |            |       |
| Photodiode                            | Built-in                     |            |       |

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## 14-Pin Package View



## Pin Out:

| PIN | FUNCTION   | PIN | FUNCTION |
|-----|------------|-----|----------|
| 1   | TEC(+)     | 14  | TEC(-)   |
| 2   | THERMISTOR | 13  | CASE     |
| 3   | PD(+)      | 12  | NC       |
| 4   | PD(-)      | 11  | LD(-)    |
| 5   | THERMISTOR | 10  | LD(+)    |
| 6   | NC         | 9   | NC       |
| 7   | NC         | 8   | NC       |

Electrically shorten LD module and store in non-extreme conditions.

Suggest using the constant current power supply.

