

**1450nm 5mW Fiber Coupled LD with 14-pin Butterfly (BTF) Package | TEC Cooling| Built-in PD**  
**1450nm|14-pin Butterfly DFB Laser Module | Single Mode Fiber Coupled| High Power Laser Diode**  
**WSLX-1450-005m-9-T-DFB**      **Wavespectrum Laser Group.**      **www.wavespectrum-laser.com**

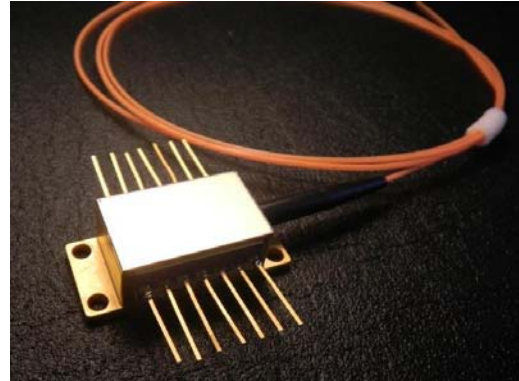
| PARAMETER                            | SYMBOL    | VALUE     | UNIT |
|--------------------------------------|-----------|-----------|------|
| Reverse Voltage                      | $V_r$     | 2.0       | V    |
| Operating Temperature                | $T_{op}$  | -20 ~ +50 | °C   |
| Storage Temperature                  | $T_{stg}$ | -40 ~ +85 | °C   |
| Lead soldering temperature (10 sec.) | $T_{is}$  | 260       | °C   |

**Features:**

- 1450nm
- 14-pin Butterfly package
- Single Mode Fiber
- Built-in Isolator
- Built-in TEC Cooling

**Applications:**

- Test Equipment
- Optical Transmitter of Analog Signal
- Optical Transmitter of Data Signal



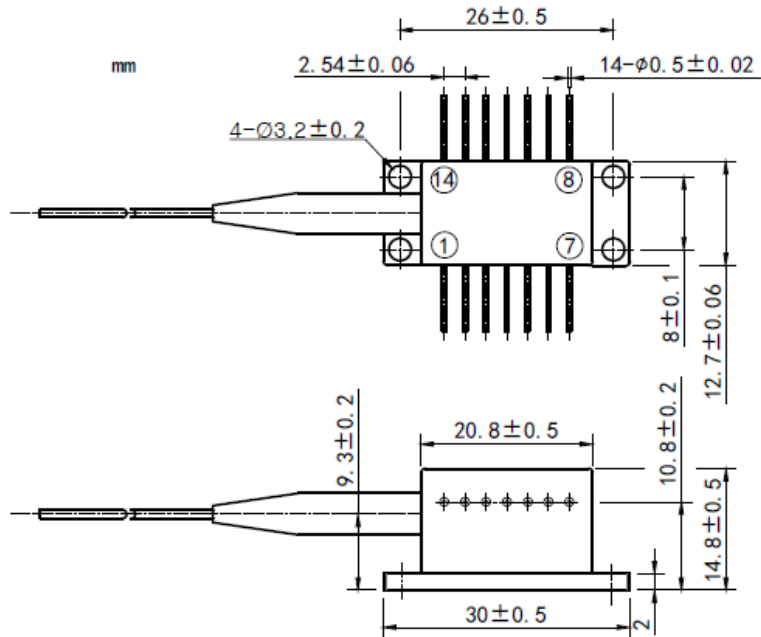
**Specifications**

**WSLX-1450-005m-9-T-DFB**

|                              | Min       | Type   | Max  |
|------------------------------|-----------|--------|------|
| Center Wavelength@25°C       | ±3nm      | 1450nm | ±5nm |
| Spectral Width (FWHM)        | ----      | 0.2nm  | ---- |
| Output Power                 | 5mW       |        |      |
| Threshold Current (Typ.)     | 10mA      |        |      |
| Operating Current (Typ.)     | 60mA      |        |      |
| Operating Voltage            | 1.4V      |        |      |
| Recommended Case Temperature | 25°C      |        |      |
| Thermistor                   | 10K       |        |      |
| TEC Max Current              | 1.8A      |        |      |
| TEC Max Voltage              | 2.5V      |        |      |
| Fiber Core                   | 9um       |        |      |
| N.A.                         | 0.12      |        |      |
| Fiber Length                 | 80cm      |        |      |
| Connector Type               | FC/SMA905 |        |      |



### 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.



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