# 1286nm 25G CWDM

Classification:Laser Product

## Key Features of the 1286nm 25G CWDM Laser

- **High-Speed Performance**: Supports data rates up to **25Gbps**, perfect for 25G PON, 50G PON, and high-bandwidth telecom applications.
- **1286nm Wavelength**: The **1286nm CWDM Laser** ensures low dispersion and signal attenuation, ideal for long-reach telecom networks.
- **Wide Temperature Range**: Operates reliably from 0°C to 75°C, making this **Cooled 25G Optical Transmitter** suitable for diverse environmental conditions.
- **TO56 Package with Aspherical Lens**: Features a compact TO56 package with a 10.2mm focal length aspherical lens for precise beam focusing and efficient integration.
- **Edge-Emitting Laser (EEL)**: Provides high optical output power and stability for long-distance transmission systems.

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Inquiry



## Features

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## Applications

### Applications of the Long-Reach Telecom Laser

The **1286nm 25G CWDM Laser** excels in **long-reach telecom and PON** environments, including:

- **Long-Reach Transmission Systems**: Enables reliable data transmission over extended distances with the **1286nm CWDM Laser**.
- **25G PON**: Powers high-speed **25G PON Laser** applications for next-generation passive optical networks.
- **50G PON**: Supports future-proof **50G PON** deployments, ensuring scalability for high-bandwidth access networks.
- **Telecom Networks**: Enhances metro and access networks with efficient, high-speed optical communication.

### Why Choose Our Cooled 25G Optical Transmitter?

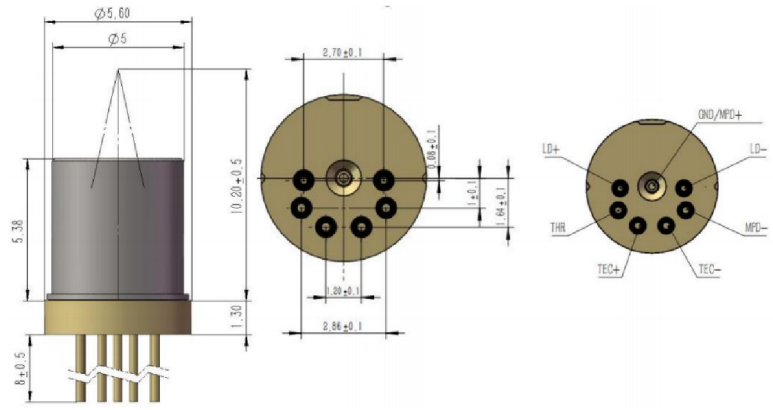
The **1286nm 25G CWDM Laser** combines cutting-edge performance with reliability and efficiency. The **25G CWDM Laser** minimizes signal loss with its low-dispersion 1286nm wavelength, making it ideal for long-reach telecom applications. Its cooled design ensures stable operation across a wide temperature range, supporting **Cooled 25G Optical Transmitter** needs in challenging conditions. Whether for 25G PON, 50G PON, or telecom networks, our **Long-Reach Telecom Laser** offers a cost-effective, high-quality solution for modern optical networks.

| Parameters | Symbol | Min | Max | Unit |
|---|---|---|---|---|
| Operating Temperature | Top | 0 | 75 | ℃ |
| Storage Temperature | $T_{STG}$ | -40 | 95 | ℃ |
| Peak Optical Output Power | Po | - | 20 | mW |
| Reverse Voltage(Laser Diode) | VRL | - | 2 | V |
| Laser Forward Current | Iop | - | 120 | mA |

## Electrical/Optical Characteristics ( T=25℃ )

| Parameters | Symbol | Test conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Threshold Current | Ith | CW,50℃ | - | 9 | 12 | mA |
| Optical Output Power | Po | CW,If=50mA, Tc=50℃ | 12.8 | - | - | mW |
| Operating Voltage | Vop | CW,If=50mA, Tc=50℃ | 1.1 | 1.45 | 1.7 | V |
| Series Resistance | Rs | CW,If=50mA, Tc=50℃ | - | 8 | 15 | Ohm |
| Monitor Crrent | Im | CW,If=50mA, Tc=50℃ | 50 | - | 1200 | uA |
| Monitor Dark current | Id | CW,If=50mA, Tc=50℃ | - | - | 100 | nA |
| Center Wavelength | λ | CW,If=50mA, Tc=50℃ | 1284 | 1286 | 1288 | nm |
| Side-mode Suppression Ratio | SMSR | | 30 | - | - | dB |
| Wavelength/Temperature Coefficient | Δλ/ΔT | | - | 0.1 | - | nm/℃ |
| Focal length | FL | From the To header surface | 9.7 | 10.2 | 10.7 | mm |
| Thermoelectric(TEC) | | | | | | |
| TEC | Qmax | I=Imax,DT=0,Th=27℃ | - | - | 0.7 | W |
| | Imax | Qc=0,DT=DTmax,Th=27℃ | - | - | 0.71 | A |
| | Vmax | Qc=0,I=Imax,Th=27℃ | - | - | 1.58 | V |
| Thermal Characteristics | | | | | | |
| Thermistor Resistance | Rth | Tc=25℃ | 9.9 | 10 | 10.1 | KΩ |
| B Constant of Rth | B | - | 3890 | 3930 | 3969 | K |

## Outline Drawings & Pin Connection Type

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