



VCSEL Coaxial, 1060 nm Single Mode with TEC built-in

OVERVIEW

The 1060 nm Vertical Cavity Surface Emitting Laser (VCSEL) is packaged in compact coaxial housing with single mode fiber pigtail. VCSEL-1060-SM is designed for fiber sensing, laser transmitter and optical communication applications. It requires very low drive current and can be temperature stabilized with built-in TEC. Contact Optilab for more information.

FEATURES

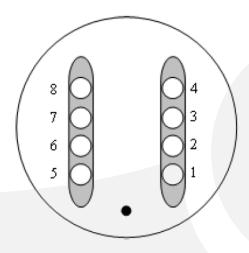
- Wavelength stabilization with TEC
- Low drive current
- Wavelength tuning through current and temperature
- Data rates up to 2.5 Gbps
- TO package with single mode fiber

APPLICATION

- Fiber Sensor
- General Purpose R&D

- Optical network
- RFoF

TO PACKAGE BOTTOM SIDE VIEW



PIN CONFIGURATION

1 TEC Cathode(-)

2 Thermistor

3 Not Connected

4 VCSEL Cathode/PD Anode

5 TEC Anode(+)

6 Thermistor

7 PD Cathode

8 VCSEL Anode





SPECIFICATIONS

GENERAL

Wavelength	1060nm +/-2.5nm
Wavelength Tuning Range	4 nm
Threshold Current	2 mA typ.
Laser Linewidht	0.1 nm
Forward Voltage	3 V
Series Resistance	100 Ω typ.
Output Power	0.2 mW typ.
Side Mode Suppression	35 dB typ.
Rise and Fall Time	100 ps typ.
Monitor Current	O.1 mA typ.
Modulation Bandwidth	3 GHz typ
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ABSOLUTE MAXIMUM RATINGS

Forward Current	15 mA
Reverse Voltage	5 V
Operating Temperature	70 °C
Reflow Temperature	260 °C
TEC Maximum Current	0.7 A

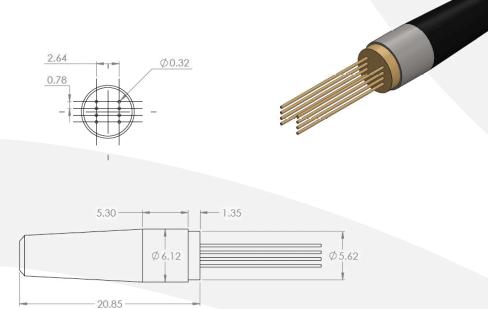
MECHANICAL

Operation Temperature Range	0 °C to +70 °C
Storage Temperature Range	0 °C to +100 °C
Fiber Type	SMF28
Connector	FC/APC
Housing Type	T056 w/8 pins





MECHANICAL DRAWING



RELATED PRODUCT

VCSEL-1550-T



Optilab VCSEL-1550-T is a tunable VCSEL diode with wide tuning range up to 10nm. It also features internal TEC and optical isolator for stable output.

