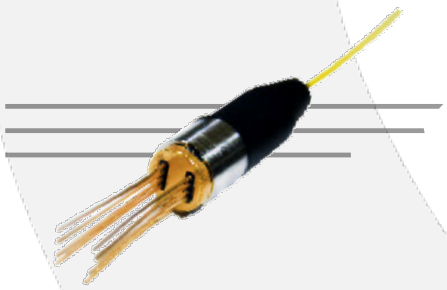
VCSEL-1550-SM



DEVICE

SM 1550 nm VCSEL Pigtail with 2.5 Gbps

OVERVIEW

The 1550 nm single mode VCSEL is designed for high-speed, high-performance communication applications. Contact Optilab for more information.

FEATURES

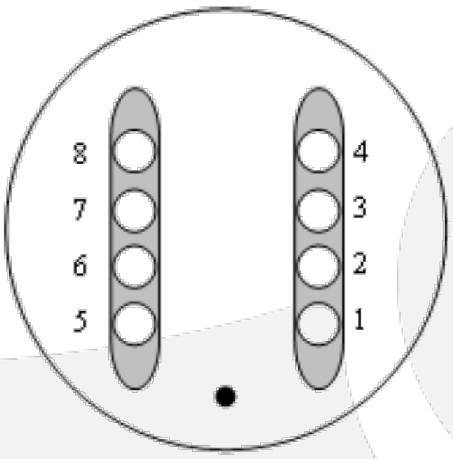
- Low dependence of electrical and optical characteristics over temperature
- Data rates up to 2.5 Gbps
- Cylindrical TO package with single mode fiber pigtail

USE IN

- Access network for long distance (> 2 km)
- Metro area network
- Gigabit Ethernet

TO-56 TEMP CONTROL/PIGTAIL VCSEL

TO PACKAGE BOTTOM SIDE VIEW



PIN CONFIGURATION

Number	Function
1	TEC cathode(-) for cool device
2	Thermistor
3	NA
4	VCSEL cathode/mPD anode
5	TEC anode(+) for cool device
6	Thermistor
7	mPD cathode
8	VCSEL anode

VCSEL-1550-SM

SPECIFICATIONS

GENERAL

Wavelength	1510 nm to 1570 nm
Threshold Current	2 mA typ., 4 mA max.
Forward Voltage	3 V
Series Resistance	100 Ω typ., 300 Ω max.
Output Power	0.4 mW min., 0.5 mW typ.
Side Mode Suppression	30 dB min., 35 dB max.
Rise and Fall Time	100 - 150 psec typ.
Monitor Current	0.05 mA min., 0.1 mA typ.
M-PD Dark Current	0.1 uA

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
Dimensions	28 mm x 7 mm x 7 mm