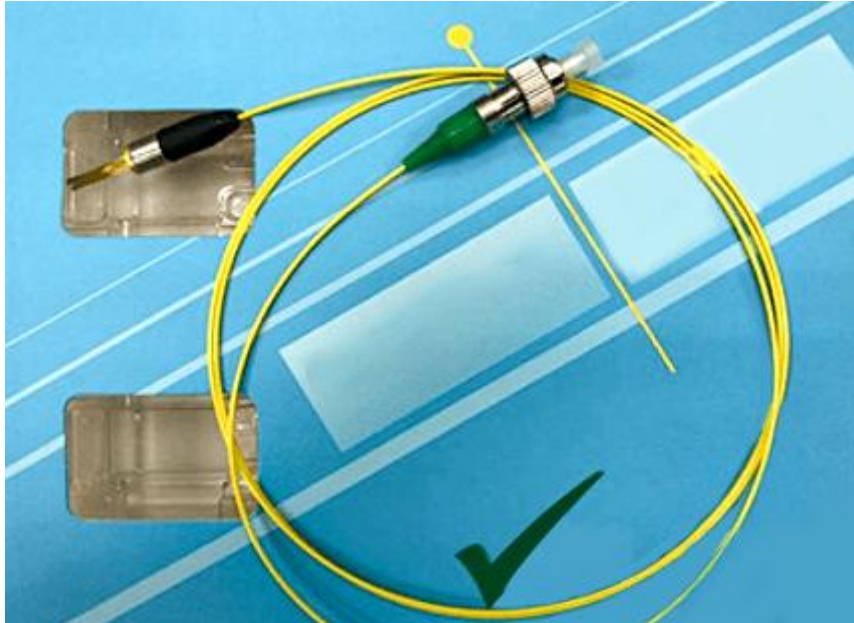


850nm TO46 polarization-maintaining fiber-coupled VCSEL laser diode (with TEC)



● Product Description

VCSEL is a vertical emitting MOVPE grown GaAsP/AlGaAs single mode diode laser. Wavelength tuning can be achieved by laser current and temperature tuning. Built-in TEC and thermistor.

● Part Number

PL-VCSEL-W0850-1-A810-CPPA

● Product features

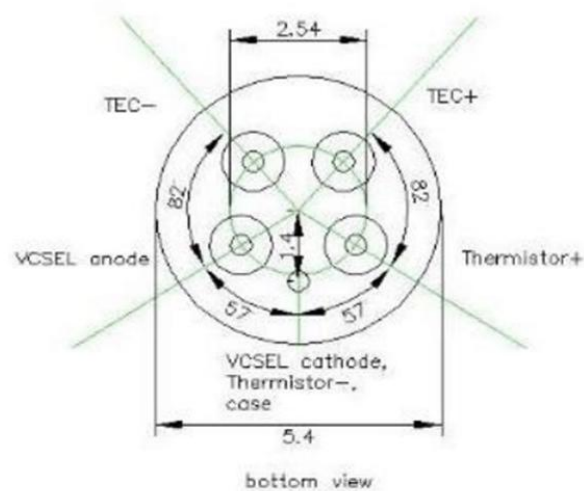
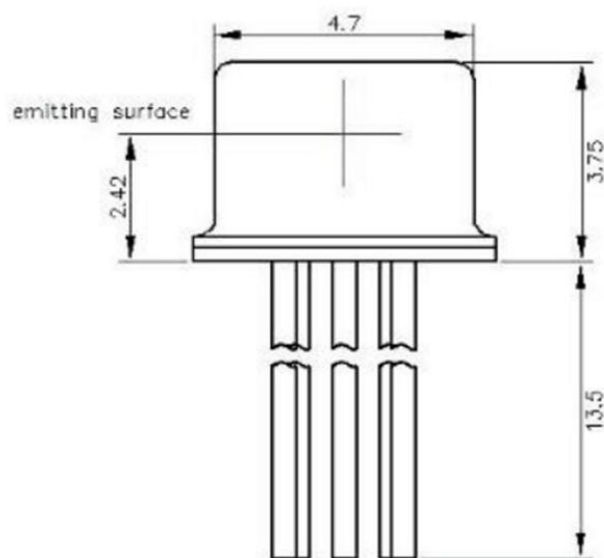
Low temperature dependence of electrical and optical properties、 Vertical cavity surface emitting laser、 Internal TEC and thermistor, ESD protection、

Narrow linewidth、 2nm tunable

● Application area

CPT atomic clock、 Optical coherence experiment

● Dimensional Drawing



Technical parameters:

Test conditions: temperature 25°C

Wavelength	850nm±10nm
Guaranteed output power	≥0.3mW
Threshold current	1.2mA
Operating current	6mA
Operating voltage	2.1v
Test output power	1.1m W
Polarization extinction ratio (PER)	>17dB
Fiber type	PMF
Fiber length	>80cm
Connector type	FC/APC
Packaging type	TO46 Coaxial package

Safety Information:

- Avoid eye exposure to direct or scattered radiation
- ESD precautions must be taken
- Use a constant current power supply. Avoid surge current
- Laser diodes must be used according to specification requirements
- Laser diodes must have good cooling effects
- Storage temperature: -20° C to +80° C

