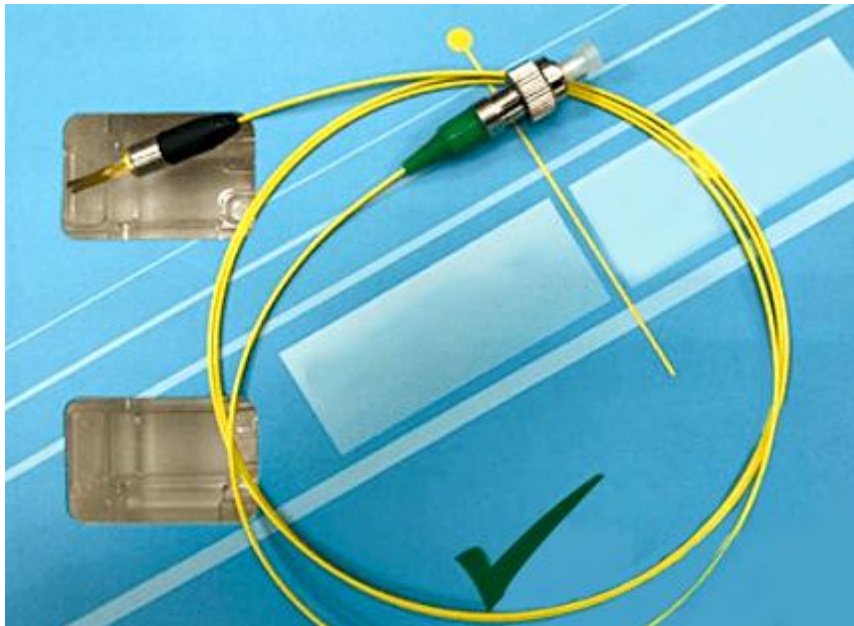


## 850nm TO46 polarization-maintaining fiber-coupled VCSEL laser diode (without TEC)



### ● Product Description

The 850 nm single-mode VCSEL is ideal for demanding sensing system applications. The VCSEL is a vertically emitting MOVPE grown GaAsP/AlGaAs single-mode diode laser. Wavelength tuning can be achieved by laser current and temperature tuning.

### ● Part Number

PL-VCSEL-W0850-O-A810-CPPA

### ● Product features

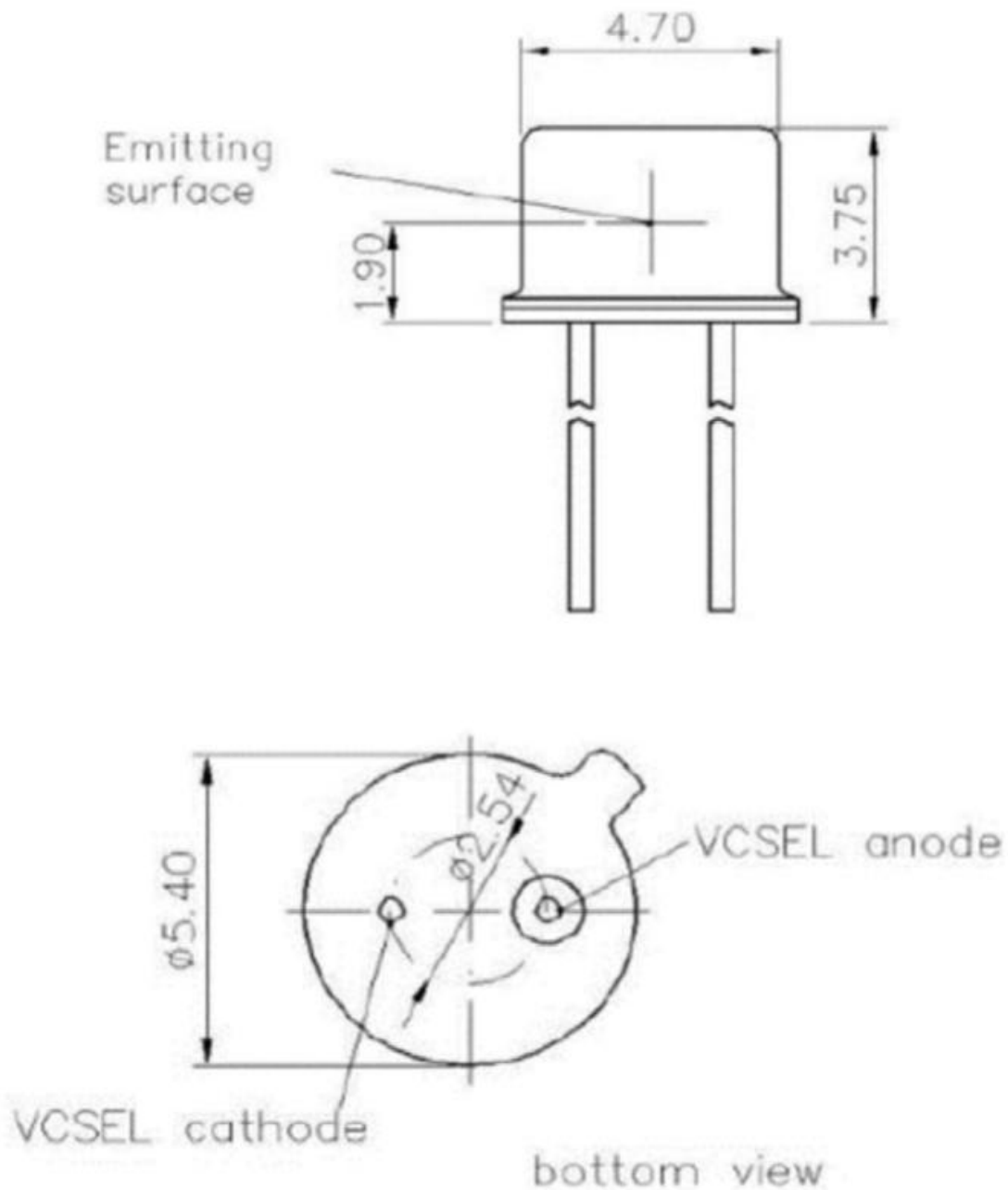
Gaussian beam profile、 Small beam divergence、 Narrow spectral width、

Low power consumption

## ● 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

