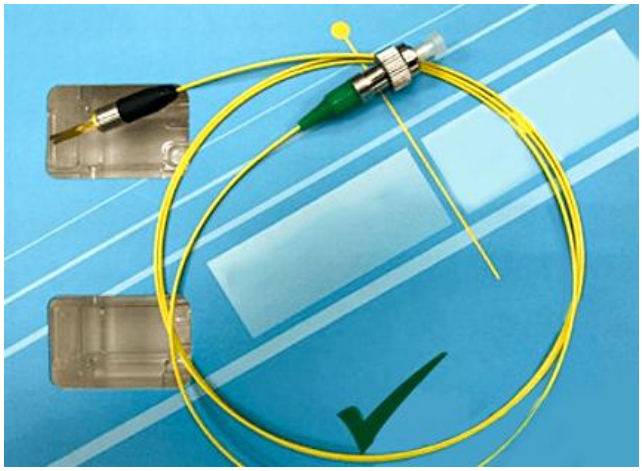
850nm TO46 polarization-maintaining fiber-coupled VCSEL laser diode (without TEC)



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.

Product features

Gaussian beam profile、 Small beam divergence、 Narrow spectral width、 Low power consumption

Part Number

MP-VCS-FC-850-0.3-TO46-PA

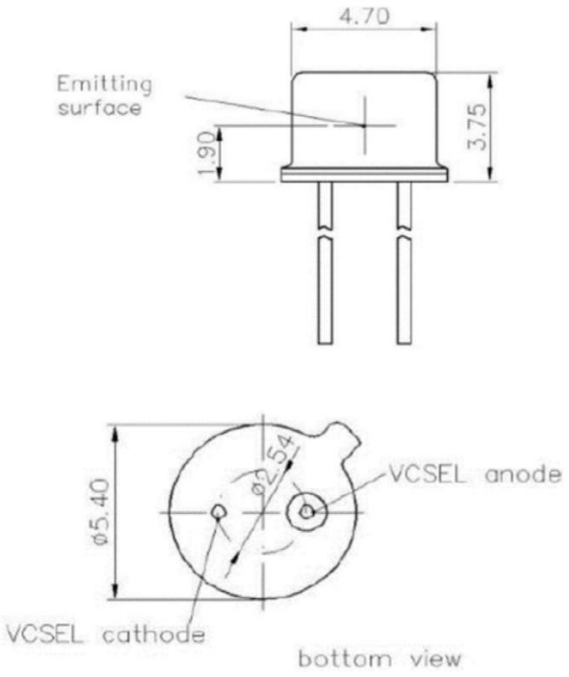
Application area

CPT atomic clock、 Optical coherence experiment

Core parameters

Wavelength	Output Power	Connector
850±10nm	1.2mA	FC/APC

Dimension Drawing



General Parameters

Technical parameters:

Test conditions: temperature 25°C

Wavelength	850 nm± 10 nm
Guaranteed output power	⩾0.3mW
Threshold current	1.2 mA
Operating current	6mA
Operating voltage	2.1v
Test output power	1.1 m W
Polarization extinction ratio (PER)	>17 dB
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