

1528-1565nm Swept Wavelength Laser



Description

Idealphotonics' IDP-SWL-C (Swept Wavelength Laser) is designed for fiber sensing applications, especially for FBG fiber sensing interrogation. Driven by a build-in electronic triangular generator, the SWL-C swept wavelength laser contains a fast tunable laser source, which consists of a Fiber Optical Tunable Filter (FOTF) and an Erbium-Doped Fiber Amplifier (EDFA). The IDP-SWL-C outputs a wavelength through continuously scanning the laser beam. The wavelength range of a standard IDO-SWL-C model covers 1528nm-1565nm C-band. The maximum output power for the standard SWL-C model is up to 17dBm.

Feature

- Depolarized output
- Linear wavelength sweeping
- Scanning frequency up to 250Hz
- Narrow output laser linewidth: <0.01nm
- High output power: up to 50mw
- Compact and Reliable

Application

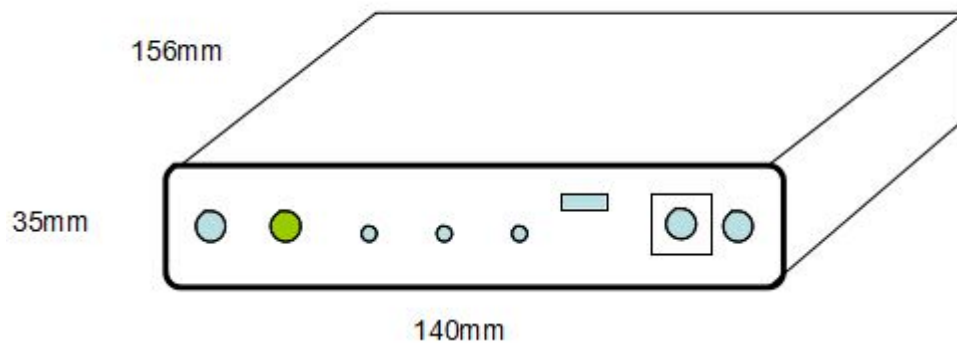
- Fiber optical sensing
- Tunable laser source
- Optical frequency domain ranging
- Optical coherence tomography
- Passive fiber optical components testing

Optical spectroscopy
Chromatic confocal microscopy

Specification

Parameter	Value
Operating Wavelength Range	1528-1565nm
Linewidth (3dB)	<0.01nm
Maximum Output Power	Up to 17dBm
Single Line Power	>7dBm
Scanning Speed	250Hz
Output Power Variation (Full Wavelength Range)	< \pm 1.0dB
OSNR	>50dB
Mode	TEM ₀₀
Operating Temperature	0° to 60°C
Storage Temperature	-10° to 60°C
Operating Voltage	+5VDC
Fiber Type	SMF-28, 0.9mm loose tube
Fiber Connector	FC/APC

Mechanical dimension(mm)



Ordering information

IDP-SWL-C-A-AA-AAA

A: Central wavelength: 1060nm 1310nm 1550nm

AA: Scan Frequency: 50HZ -250HZ

AAA: Output power: 5-50mw