

Product Brief — FP3013x Series O-band Tunable Laser

FEATURES

- 32 nm tuning range:
fast, continuous, gap free
- 90 nm tuning available (trio)
- Integrated SOA functions
as amplifier or shutter
- PM Fiber Output
- 14-pin Butterfly Package
- Internal Optical Isolator

APPLICATIONS

- C-WDM Communications
- Test and Measurement
- Sensing
- Spectroscopy

Notes

1. Gap-free continuous wavelength tuning range.
2. Power depends on current tuning points and thermal management. 5 mW typical across majority of tuning range.

OVERVIEW

The FP3013x series tunable laser consists of a monolithic Indium Phosphide chip that integrates a widely tunable laser with a semiconductor optical amplifier (SOA). The laser is electronically tuned and can address any wavelength in a 32 nm band centered at 1280, 1310 or 1340 nm.

The integrated SOA facilitates flexible control of the output power and acts as a shutter when reverse biased, enabling dark tuning between channels.

The device is packaged into a standard 14-pin butterfly package, with an internal optical isolator and polarization maintaining fiber output.

SPECIFICATIONS

General Parameter	Value	Unit
Center Wavelength		
FP3013a	1280	nm
FP3013b	1310	nm
FP3013c	1340	nm
Tuning Range ¹	≥ 32	nm
Output Power ²	5	mW
SMSR	> 30	dB
Laser Linewidth	< 50	MHz
Relative Intensity Noise	< -135	dBc/Hz
Fiber Connection	Single Mode Polarization Maintaining	