

## Product Brief

### FEATURES

- 35 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. 5 mW minimum power across all wavelengths, maximum power will vary.

### 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 35nm 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 <sup>1</sup>	≥ 35	nm
Output Power <sup>2</sup>	≥ 5	mW
SMSR	> 30	dB
Laser Linewidth	< 50	MHz
Relative Intensity Noise	< -135	dBc/Hz
Fiber Connection	Single Mode Polarization Maintaining	

