

## Product Brief

### FEATURES

- 40 nm tuning range: fast, continuous, gap free
- Overlap with C-band tunables for 80 nm continuous tuning is available
- 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 FP3015L 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 wavelengths in the L-band.

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	1592	nm
Tuning Range <sup>1</sup>	≥ 40	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	

