

Product Brief

FEATURES

- 40 nm tuning range: fast, continuous, gap free
- 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 FP3015c 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 the C-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 | 1548 | nm |
| Tuning Range ¹ | ≥ 40 | 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 | |

