

Product Brief

FEATURES

- 45 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

- Gas Sensing
- Test and Measurement
- 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 FP3016u 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 U-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	1644	nm
Tuning Range ¹	≥ 45	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	