FP3016u U-band Package Tunable Laser



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

- Gap-free continuous wavelength tuning range.
- 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

Value	Unit
1638	nm
≥40	nm
≥5	mW
>30	dB
<50	MHz
<-135	dBc/Hz
	1638 ≥40 ≥5 >30 <50



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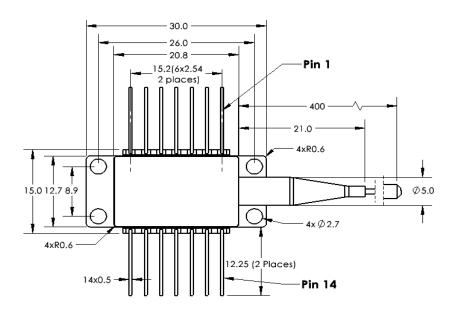
APPLICATIONS

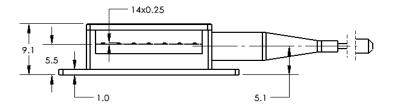
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PINOUT

Pin	Descriptions	Pin	Descriptions
1	TEC +	14	TEC -
2	Thermistor	13	Gain GND
3	Thermistor	12	Gain
4	SOA GND	11	PH GND
5	SOA	10	PH
6	FM GND	9	BM GND
7	FM	8	BM

MECHANICAL DRAWING





All Dimensions in millimeters