

# FP3613 O-band Package

## High Power DFB



### Product Brief

#### FEATURES

- Single-frequency distributed feedback (DFB) laser chip
- Two different power options

#### APPLICATIONS

- Optical Fiber Communications
- RF Photonic Links
- Fiber Optic Testing
- Medical
- Sensing

#### Notes

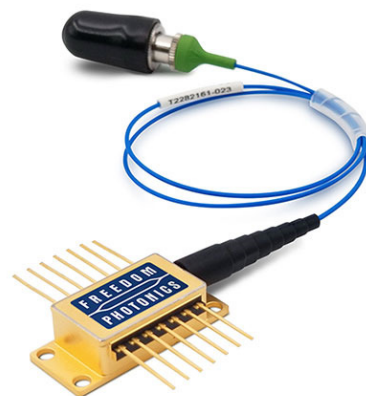
1. Non-condensing
2. Measured at specified operating power, 25C
3. Measured using our Whisperdrive laser mount
4. Above 1GHz

#### OVERVIEW

The FP3613 1310nm High Power Distributed Feedback (DFB) Laser is a high performance single spectral mode device, with output power of 75 mW and 135 mW. The package can be operated at higher temperatures for reduced power consumption in warm ambient environments. The hermetically sealed package incorporates a two-stage internal isolator. The single mode output is in polarization maintaining fiber.

#### SPECIFICATIONS

General Parameter	Value	Unit
Output Power in Fiber with TEC at 25C		
FP3613a	>75	mW
FP3613b	>135	mW
Operating Current with TEC at 25C		
FP3613a	<450	mA
FP3613b	<1.1	A
Output Power in Fiber with TEC at 85C		
FP3613a	>35	mW
FP3613b	>60	mW
Operating Current with TEC at 85C		
FP3613a	<400	mA
FP3613b	<800	mA
Center Wavelength	1295, 1306, 1312	nm
Case Temperature Operating Range <sup>1</sup>	10 - 55	°C
Case Temperature Storage Range <sup>1</sup>	-10 - 85	°C
SMSR <sup>2</sup>	>45	dB
Linewidth <sup>2,3</sup>	<300	kHz
RIN <sup>2,4</sup>	-150	dBc/Hz



# FP3613 O-band Package

## High Power DFB



### Product Brief

#### FEATURES

- Single-frequency distributed feedback (DFB) laser chip
- Two different power options

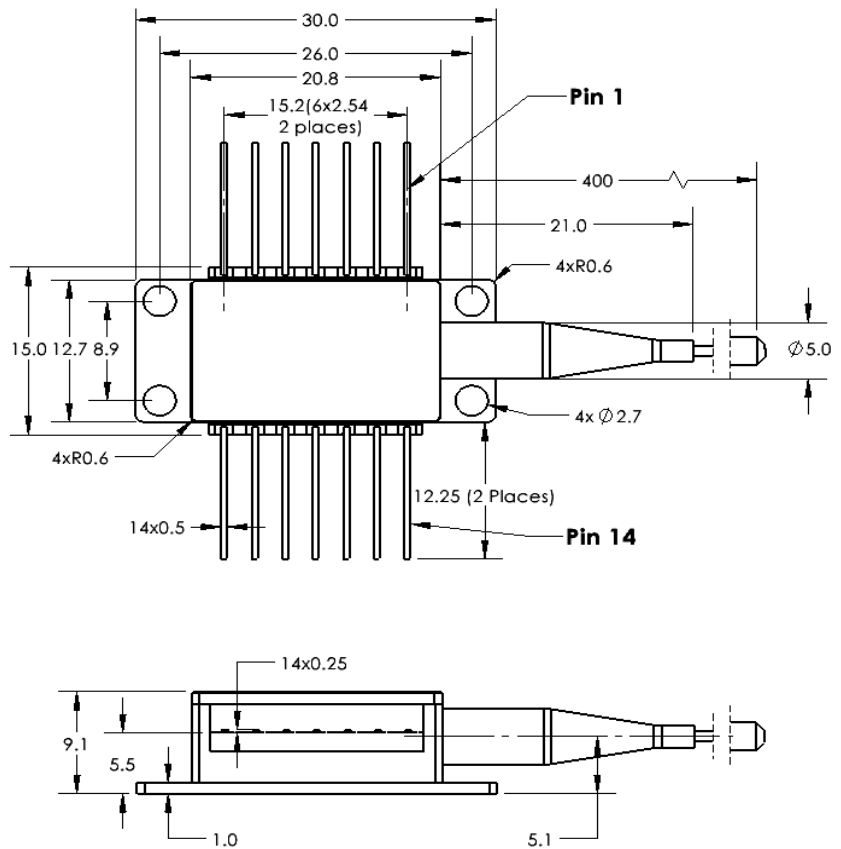
#### APPLICATIONS

- Optical Fiber Communications
- RF Photonic Links
- Fiber Optic Testing
- Medical
- Sensing

#### PINOUT

Pin	Descriptions	Pin	Descriptions
1	Thermistor	14	Optional Case &/or Laser Anode
2	Thermistor	13	Laser Anode
3	Laser Cathode	12	NC (Optional bias-T)
4	Monitor PD Anode	11	Laser Anode
5	Monitor PD Cathode	10	Optional Case &/or Laser Anode
6	TEC +	9	Optional Case &/or Laser Anode
7	TEC -	8	Optional Case &/or Laser Anode

#### MECHANICAL DRAWING



All Dimensions in millimeters