FP3613a O-band Package High Power DFB

FREEDOM PHOTONICS
a Luminar company

Product Brief

FEATURES

- Single-frequency distributed feedback (DFB) laser chip

APPLICATIONS

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

NOTES

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

OVERVIEW

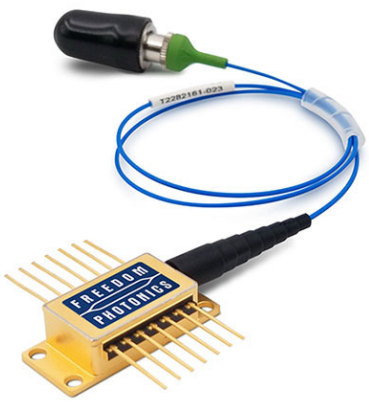
The FP3613 High Power Distributed Feedback (DFB) Laser is a high performance single spectral mode device, with output power of >90 mW, available in wavelengths ranging from 1260 nm to 1320 nm.

The package can be operated at higher temperatures for reduced power consumption in warm ambient environments.

The device is packaged into a standard 14-pin butterfly package, with an internal two-stage optical isolator and polarization maintaining single-mode fiber output.

TARGET PERFORMANCE

General Parameter	Value	Unit
Output Power in Fiber[1]	>90	mW
Operating Current	<600	mA
Wavelength	1260 to 1320	nm
Case Temperature Operating Range[2]	10 - 55	°C
Case Temperature Storage Range[2]	-10 - 85	°C
SMSR[3]	>45	dB
Linewidth[3,4]	<300	kHz
RIN[3,5]	-150	dBc/Hz



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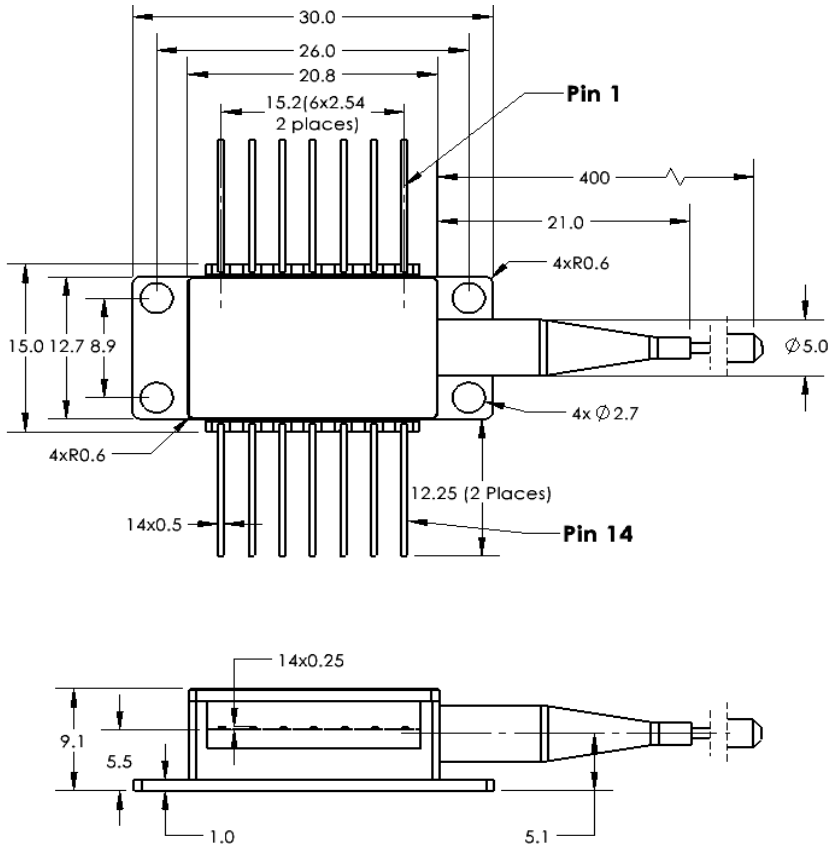
PINOUT

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