

FP3615 C-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. Measured at 25 °C
2. Non-condensing
3. Measured at specified operating power
4. Measured using our Whisperdrive laser mount
5. Above 1 GHz

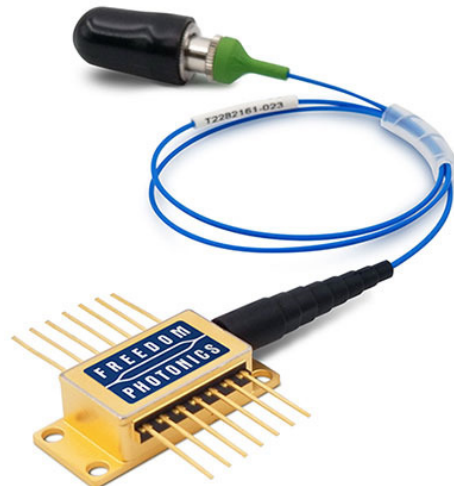
OVERVIEW

The FP3615 1550 nm High Power Distributed Feedback (DFB) Laser is a high performance single spectral mode device that is available in 80 mW and 120 mW configurations.

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.

SPECIFICATIONS

General Parameter	Value	Unit
Output Power in Fiber ¹		
FP3615a	>80	mW
FP3615b	>120	mW
Operating Current		
FP3615a	<500	mA
FP3615b	<1.1	A
Wavelength	1540 to 1560	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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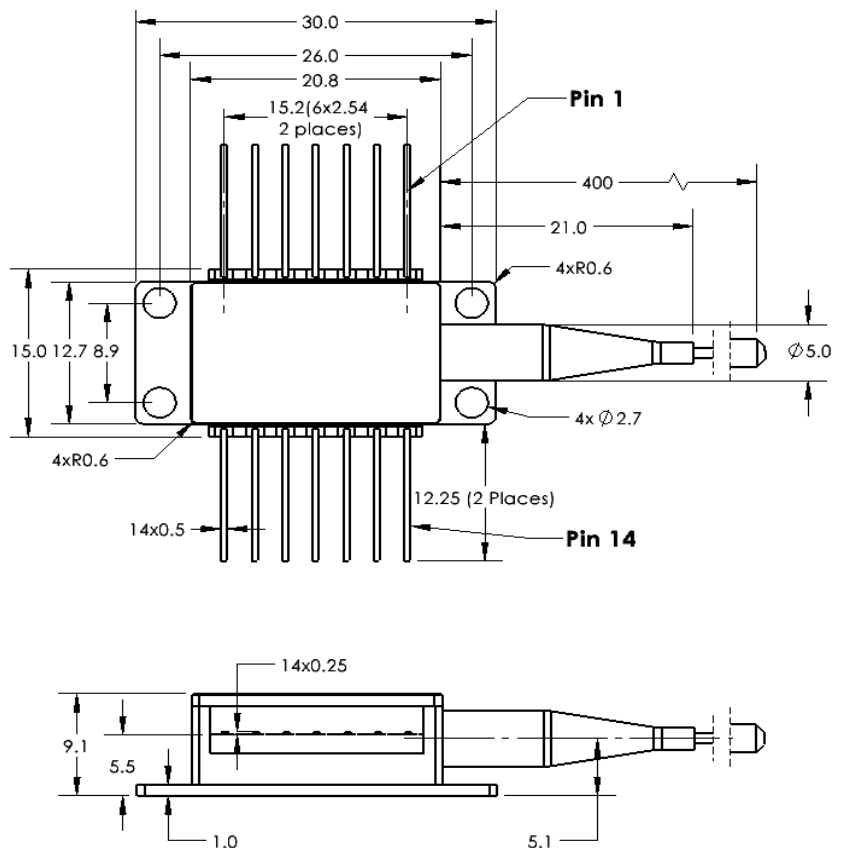
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PINOUT

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