

2334 nm DFB Laser Specifications

Model Number: NL2334-T

Operating Parameters

Parameter	Units	Min.	Max.
Storage Temperature	°C	-40	80
Case Operating Temperature	°C	-20	40
TEC Current	A		1.2
Laser Diode Forward Current	mA		200
Laser Diode Reverse Voltage	V		2

Laser Characteristics

Parameter	Condition	Units	Typical Value
Threshold Current	20 °C	mA	30
Operating Wavelength	100 mA & 20 °C	nm	2334 ± 1
Operating Power	100 mA & 20 °C	mW	5
Forward Voltage	100 mA & 20 °C	V	1.6
Thermistor Resistance	25 °C	kΩ	10 ± 0.1
Thermistor B constant	25 °C		3890
Temperature Tuning		nm/°C	0.20
Current Tuning	near 2334 nm	nm/mA	0.05
Side Mode Suppression Ratio (SMSR)		dB	> 30

Package:

- TO-39 hermetically sealed
- AR coated Sapphire window
- Internal TEC and thermistor

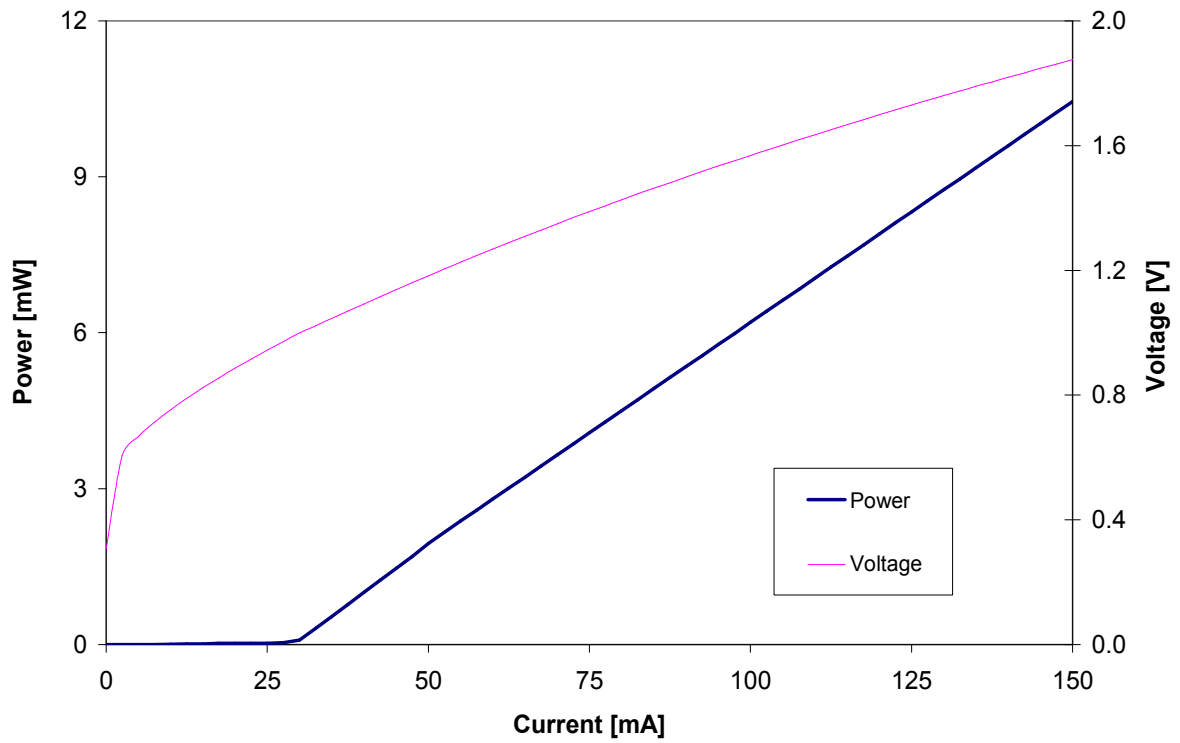
Lens Option:

- Aspheric AR coated Lens, R < 0.6%
- Beam diameter (1/e²): typically 3 mm
- Beam collimation: typically < 1.0 mrad

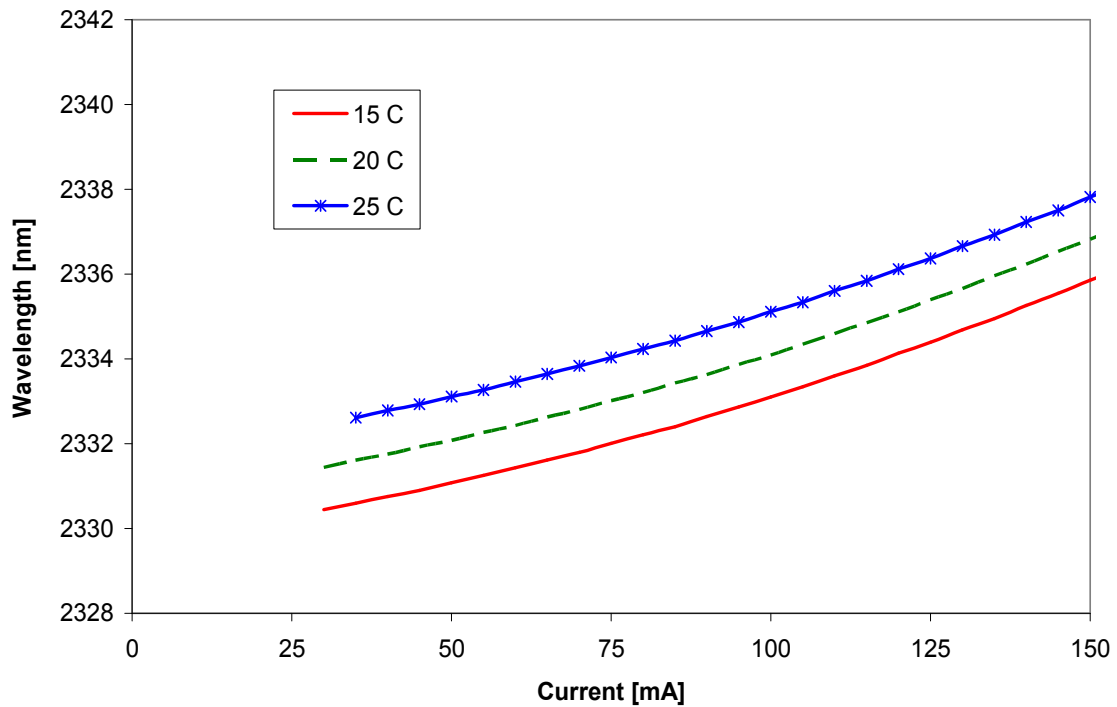


Caution: Laser diode produces invisible radiation during operation and is sensitive to electrostatic surge. Please read handling instruction carefully before working with the laser.

Optical Power & Forward Voltage vs Drive Current at 20°C

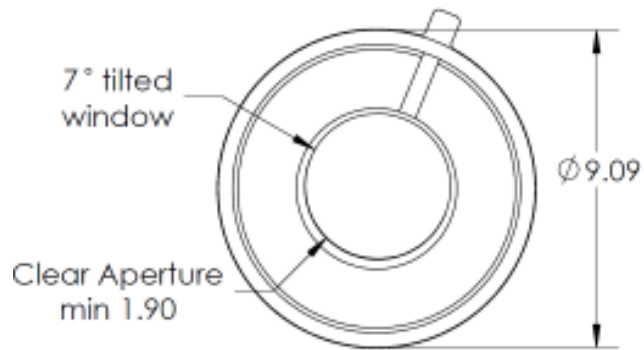


Wavelength vs Drive Current

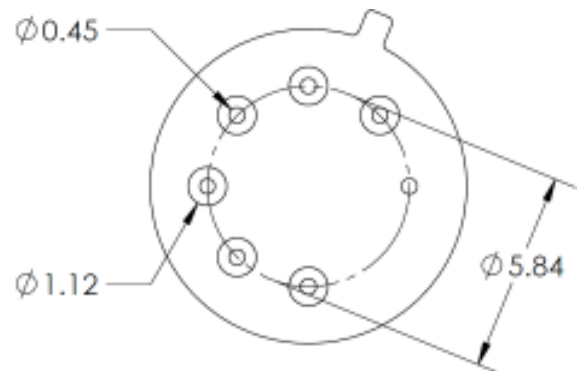


TO39 Package Outline Diagrams:

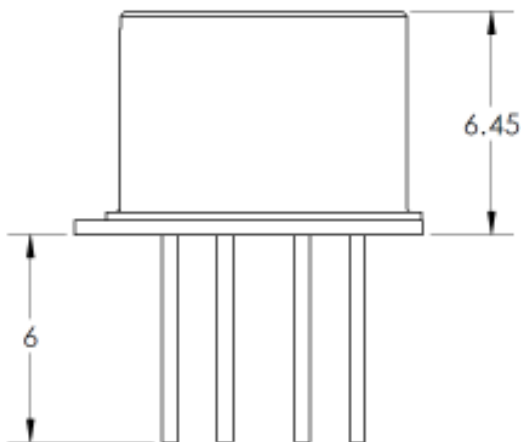
Top View



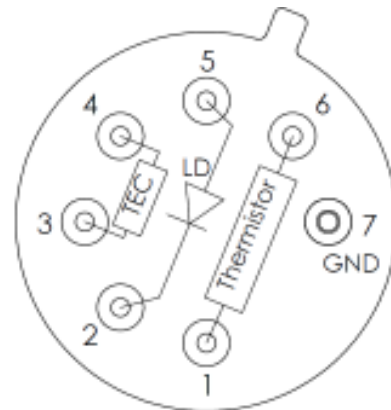
Bottom View



Front View



Schematic Diagram (Bottom View)



Pin Number	Description
1	Thermistor
2	LD Cathode (-)
3	TEC +
4	TEC -
5	LD Anode (+)
6	Thermistor
7	Ground