Product Brief —v FP3007 7xx DFB Laser 770-800 nm Single Mode Laser

FEATURES

- Single-frequency distributed feedback (DFB) laser chip
- Semiconductor optical amplifier (SOA) option

APPLICATIONS

- Atomic spectroscopy
- Atomic Sensors
  - NMR technologies
  - Atom interferometers
- Rubidium based atomic instruments
- Gas sensing
- LIDAR

Notes

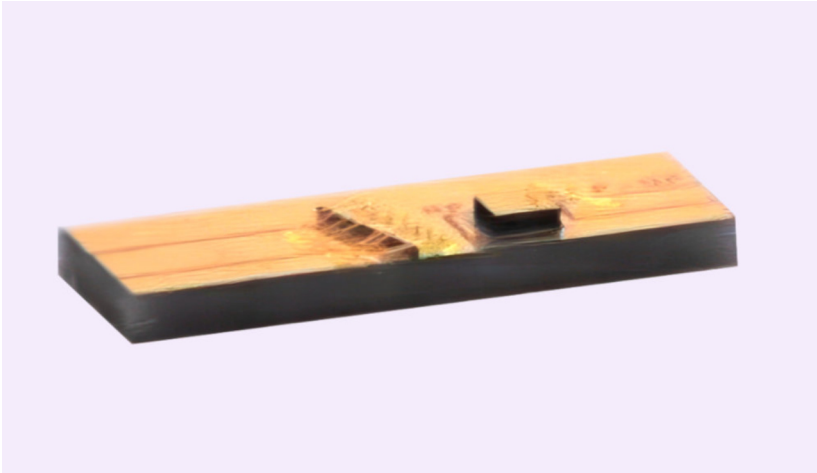
1. Non-condensing
2. Measured at specified operating power
3. Measured using our Whisperdrive laser mount

OVERVIEW

The FP3007x is a single-frequency Distributed Feedback Laser (DFB) chip. This device offers mode-hop free performance when tuned over temperature and injection current. The optical output beam is diffraction limited, single lateral and longitudinal mode. Versions of this device with separately controlled semiconductor optical amplifiers for power control and shuttering are available.

SPECIFICATIONS

General Parameter	Value	Unit	Comments
Center Wavelength	770-800	nm	
Tuning Range	1.5	nm	
Output Power[1]	20	mW	10-40°C
SMSR[2]	> 30	dB	
Laser Linewidth[2,3]	< 1	MHz	
Chip Temperature	10 - 40	°C	



As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.