

## Product Preview

### APPLICATIONS

- Atomic spectroscopy
- Rubidium based atomic instruments
- Potassium based atomic instruments
- O2 detection
- LIDAR
- Interferometry-based sensors

### FEATURES

- Single-Frequency Distributed Feedback (DFB) Laser Chip
- Several package style options
- High CW Output Power and Efficiency
- Passivated facets for high-power reliability

### OVERVIEW

The FP3007x is based on a single-frequency Distributed Feedback Laser (DFB) chip. This type of device offers mode-hop free performance when temperature tuned around its room temperature wavelength. The optical output beam is diffraction limited, single lateral and longitudinal mode. Mode-hop free over temperature and time. Facets are passivated for reliable performance at high power. The DFB laser chip can be packaged in several options: TOSA, Butterfly and TO-8. These packages can have a fiber pig-tail or window optical output.

### SPECIFICATIONS

Parameters	min	typ	max	unit
Output Power @ 200 mA	100	120		mW
Threshold Current		33	40	mA
Slope Efficiency	0.40	0.45		A/W
Linewidth		1		MHz
Side-mode Suppression Ratio	30	35		dB
Operating Temperature	-5		75	°C
Wavelength $\pm$ 2 nm from customer specified value				
Specification values at 25°C				

