PRINCETON OPTRONICS

Product Data sheet (Preliminary)
PR-LNL-W1064-A
January 1, 2010

High Power Low Noise Laser – 1064nm

Key Features

- **Output power 100, 150 or 200mW**
- **Center wavelength in range 1050-1080nm**
- **No Relaxation Oscillation peak**
- **Very low amplitude noise-**
  @ 100kHz : <-140dBc/Hz,
  @ >1MHz : <-160dBc/Hz
  (Shot noise limit)
- **Narrow linewidth: 50kHz**
- **Good wavelength stability**
- **Small package size**

Picture of the low noise laser.
Package size- 89 x 38 x 15 mm

Applications

- **LIDAR**
- **RF Links**
- **Sensing**
- **Coherent Communication**
- **Test & Measurement**
- **Replacement for Nd:YAG & Fiber laser based low noise lasers**

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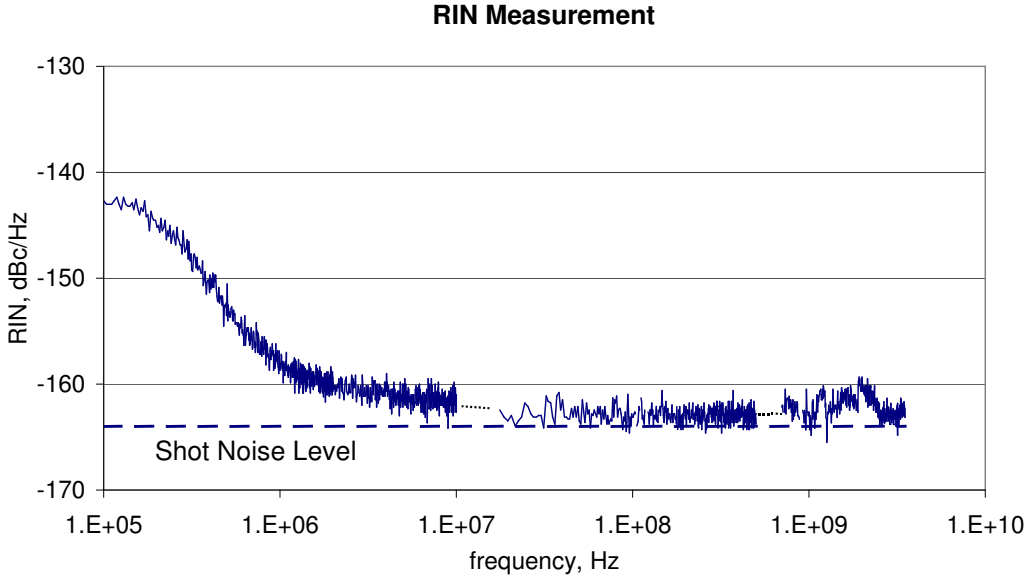
Product Specifications

Temperature: 25°C

Parameter	Value
Wavelength range	1050 – 1080nm
Output Power	100, 150, 200mW
Wavelength Stability	TBD – 0.1nm
Wavelength Accuracy	TBD - +/-0.1nm
RIN (100KHz)	< -140dB/Hz
RIN (>1MHz)	< -160dB/Hz or shot noise limited
Line width	50kHz
Side Mode Suppression Ratio (SMSR)	> 30dB
Power Stability	+/- 0.25dB
Connectors	FC/APC
Fiber pigtail	PM fiber, 1m long
Package Dimensions	3” X 1.5” X 0.5”



Notes.

1. Laser polarization aligned to slow axis of the fiber.

Fiber Type: Fujikura Panda PMF with 900 micron Hytrel jacket
Fiber Length: 1.0 – 1.1 m
Termination: FC/APC (angled) connector