連續式固態雷射
Continuous Solid-State Laser

JDSU

單頻紅外線雷射

Continuous Wave (CW) Single-Frequency IR Laser - NPRO® 125/126 Series

Key Features

- 1319 or 1064 nm outputs available
- Fiber-coupled output
- Proven nonplanar ring oscillator (NPRO) design
- Superior power stability
- Narrow linewidth
- Tunability
- Ease of use
- Ideal for OEM applications

Applications

- Fiber-optic sensing
- Coherent communications
- Remote antenna links
- Optical heterodyne
- Lidar oscillator
- Passive sonar

NPRO125 Specifications*1

Parameter	125N-1319-xxx	125N-1064-xxx
Wavelength	1319 nm	1064 nm
CW power	>100, 150, 200 mW	>25 mW
Spatial mode	TEM_{00}	TEM_{00}
Longitudinal mode	Single frequency	Single frequency
Linewidth	<5 kHz/ms	<5 kHz/ms
Coherence length, calculated	>1000 m	>1000 m
Frequency drift *2	<50 MHz/hour	<50 MHz/hour
Amplitude noise, 10 Hz to 2 MHz	<0.05% rms	<0.05% rms
Power drift over 8 hours *3	<5% peak-to-peak	<5% peak-to-peak
Thermal tuning range, continuous	>10 GHz	>10 GHz
Thermal tuning range, total	>30 GHz	>30 GHz
Thermal tuning rate	>1 GHz/second	>1 GHz/second
Piezo tuning range, 0 to 100 V	>30 MHz	>30 MHz
Piezo response bandwidth, small signal	>30 kHz	>30 kHz
Warm-up time, from cold start (AC off)	1 minute	1 minute
Dimensions Laser head size (W x H x D)	6 x 8 x 20 cm	6 x 8 x 20 cm
Weight	1.2 kg (2.65 lbs)	1.2kg (2.65 lbs)
Fiberoptic		
Fiber supplier and part number	Fujikura SM13-P7/125-UV/UV-400	3M FS-PM-5121
Fiber pigtail length	>2 m	>2 m
Fiber pigtail connector alignment	FC/PC, key parallel to slow axis	FC/PC, key parallel to slow axis
Polarization, linear	>30:1, parallel to connector key	>30:1, parallel to connector key
Mode field diameter, NA	9.5 µm, 0.11	7.2 µm, 0.11

*1. Fiber-coupled output.
*2. Base temperature constant to within <2 °C, total range, after 30 minute warm-up.
*3. Base temperature constant to within <5 °C, total range, after 30 minute warm-up.

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