

PNL-1064



The Optilab PNL-1064 is a programmable laser that produces nanosecond pulses with electrical input pulses. It functions as a seed pulse generator for Master Oscillator Power Amplifiers (MOPA). Available in a rackmount or benchtop unit, the PNL-1064 also functions as electrical to optical pulse generator. It consists of a narrow- line-width, ultra stable, high power DFB laser diode for gain switch, direct modulation to provide pure and efficient modulation. The PNL-1064 is available with SM or PM fiber, and is designed for direct modulation of laser current to pulse modulation to produce < 5 ns width optical pulses using an electrical input from an external pulse generator, and the peak output power can reach 500 mW. The laser system is equipped with a standard remote control interface (RS-232) and an LCD display screen for easy user interface, accessible through a front panel adjustment knob. Contact Optilab for more information.

Summer Commence Statistics

FFATURES • 1064 nm +/- 15 nm Center Wavelength • SM or PM fiber optional Maximum repetition rate of 100 MHz • TTL input for pulse trigger • Peak power of 500 mW • Generate short pulse of < 5 ns • Gain switch direct modulation • High Pulse Contrast of 50 dB USE IN Master Oscillator Power Amplifier (MOPA) Research & Development Second Harmonic Generation (SHG) Test & Measurement FUNCTIONAL DIAGRAM External 1064 nm Pulse Programmable Laser Driver



Pulse Input

Product specifications and description are subject to change without notice. © 2019 Optilab, PNL-1064. Jan 2019 Rev. 1.0

Output

Diode



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	Center Wavelength & Stability	1064 nm + 15 nm
SFLUI ICATIONS	Minimum Pulse Width	< 5 ns
OPTICAL	Pulse Repetition Rate	User Programmable from 100 Hz to 50 MHz
	Energy Per Pulse	Up to 20 nJ
	Pulse Contrast	50 dB
	Polarization Extinction	20 dB PM version
	Optical Output Power (CW)	> 100 mW SM option
	Peak Power Optical Output	500 mW max.
	Wavelength Adjustment Resolution	0.05 nm (optional)
ELECTRICAL INPUT	Frequency	100 Hz to 50 MHz
	Input Trigger Level TTL	> 3.5 V
	Electrical Connector	SMA
MECHANICAL		
	Operating Temperature	<u> </u>
	Storage Temperature	-40°C to +70°C
	Humidity	
	Power Supply	110 V AC and 220 V AC 50 or 60 Hz
	Display	Temperature Current Voltage
		1CD display or RS-232 for Laser Switch EDFA output
	Controls/Monitoring	power through front panel
	Communication Interface	RS-232 interface cabling from PC to units
	Dimensions	IRU: 19" x 20.5" x 3.5", or Benchtop
	Optical Connector	SMF-28 FC/APC, PANDA FC/APC, or user option
	Electrical Connector	SMA Female

ORDERING OPTIONS

PNL-1064-x-y

SM or PM fiber Х у

Benchtop or Rackmount

