NPL-1064-27-PM-B

DEVICE

High Power Nanosecond Pulse Laser, +27 dBm Polarization Maintaining 1060 nm, Benchtop

OVERVIEW

The Optilab NPL-1064-27-PM-B is a variable, pulsed high power laser source, a building block ideal for MOPA, LIDAR, OTDR laser systems development and applications. This fully integrated compact module contain a Distributed Feedback (DFB) laser and built-in optical amplifier stage, and a variable nanosecond pulse generation circuits. The NPL-1064-27-PM-B provides up to 200 mW optical peak power in 1060 nm wavelength region, with a programmable pulse width from 10 ns to 1000 ns, and a selectable pulse repetition rate from 100 Hz to 1 MHz. The optical pulse generation can alternatively be controlled via an external electrical trigger. In a compact design, NPL-CWDM-M is applicable for OEM integration or as a stand-alone pulsed laser source. Contact Optilab for more information.

FEATURES

- 1060 nm Operating Wavelength
- Requires no external pulse generator
- Pulse width 10 ns to 1000 ns, programmable
- Selectable repetition rate: 100 Hz to 1 MHz
- 100 mW peak power
- RS-232 via USB Control Interface

APPLICATIONS

- Master Oscillator (MO) for MOPA
- Pulsed light source for LIDAR
- Laser Source for OTDR
- Pulse Based Optical Instrumentation
- Raman Distributed Sensing

SPECIFICATIONS

Operating Wavelength	1060 nm
Laser Type	DFB
Laser Linewidth	< 3 MHz
Optical Pulse Width	10 ns to 1000 ns (selectable)
Pulse Repetition Rate	100 Hz to 1 MHz
Pulse Contrast Ratio	50 dB typ.
Peak Optical Output Power	20 mW typ.
Input Trigger Level TTL	> 3.5 V
Trigger Connector	SMA female, 50
Optical Connector	FC/APC, others available

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MECHANICAL

Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Humidity	10% to 90%
Power Supply	120/220 VAC
Accessories	AC power cable
Cooling	Active
Communication Interface	RS-232 via USB 2.0
Output Fiber	PM 980
Mechanical Dimensions	115 mm x 106 mm x 24.5 mm

FUNCTIONAL DIAGRAM