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Version 01/2026

AMPLICONYX
NEW FRONTIER IN ULTRAFAST LASER PERFORMANCE.

PULSED NANOSECOND LASER
AMPX - NsL

APPLICATIONS

SCIENCE

INDUSTRY

AEROSPACE

KEY FEATURES

- Wavelengths 980, 1030, 1040, 1064, 1550 nm
- Tunable pulse duration 0.5-3 ns
- Average power up to 40 mW
- Repetition rate 0-20 MHz
- Fiber coupled output

APPLICATIONS

- Spectral analysis
- Lighting systems
- LIDAR
- Science / Research

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OVERVIEW, SPECIFICATIONS

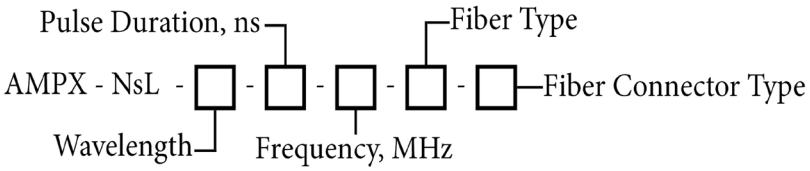
DESCRIPTION

The AMPX-NsL is a compact nanosecond-pulsed laser for applications which require pulse width of 0.5-3.0 ns. The pulse repetition frequency can be varied from 0Hz (external trigger operation) to 20 MHz (internal clock generator or external triggering). The driver circuitry operates from a single 12 VDC power source. All other needed voltages are generated on the board by high efficiency switching power supplies. The driver supplies a bidirectional proportional-integral-derivative (PID) thermoelectric cooler controller (TEC) with current capability of 3 A and voltage capability up to 5 V. The main parameters of AMPX-NsL (power, repetition rate, temperature set point) are controlled by computer or microcontroller interface. The AMPX-NsL has an external TTL-compatible input for repetition rate control from single shot up to 20 MHz. The AMPX-NsL has an output for synchronization with other components of the optical system.

SPECIFICATIONS

OUTPUT PARAMETER	MIN	TYP	MAX	UNITS
OUTPUT				
Wavelength	980	-	1550	nm
Frequency	0	-	20	MHz
Pulse Width	0.5	1.0	3.0	ns
Average power	0.5	-	40	mW

ORDERING INFORMATION



Example: AMPX-NsL-971-2-1-PM-FCA

GET IN TOUCH WITH US!

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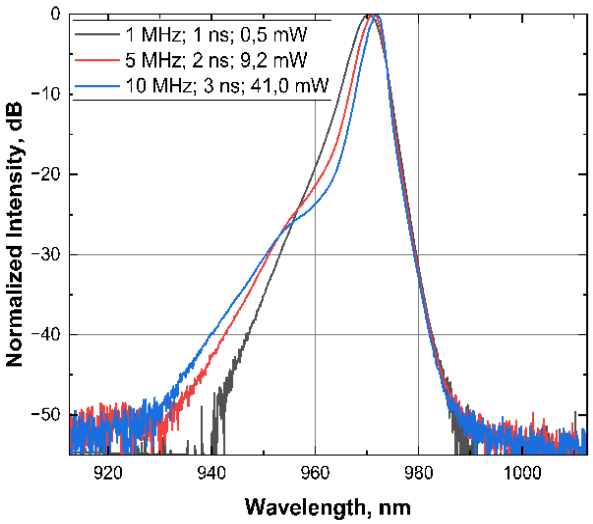
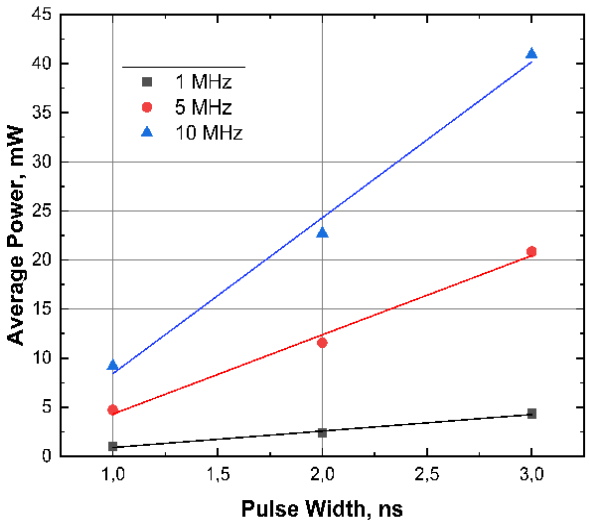
PERFORMANCE, DIMENSIONS

EXAMPLE OPERATION





DIMENSIONS