



Diode Pumped Laser Systems Series 525

At the heart of the world's most advanced, ruggedized airborne targeting systems are Northrop Grumman's Diode Pumped Laser Systems, or DPLS.

The patented athermal, diode-pumping architecture in the DPLS Series 525 requires minimal active thermal management. The Series 525 laser yields the lowest power consumption available with the highest output energy and lowest beam divergence as a two-color laser.

Fully qualified and flying on several manned and unmanned aircraft, the Series 525 laser offers affordable, reliable 1.064 μm designation, as well as 1.064 μm and 1.570 μm rangefinding. The laser enables extreme precision from long standoffs.

Northrop Grumman designs, develops and builds the lightweight, compact DPLS Series 525 laser to meet mission requirements for integration into existing targeting systems as an immediate upgrade and for new systems in development.

Northrop Grumman Laser Systems is one of the world's leading manufacturers of military electro-optical (EO) targeting systems and has been

building laser designators with mission overmatch for 40 years.

Technical Specifications

Wavelengths:

- Designator: Nd:YAG 1.064 μm
- Rangefinder: 1.570 μm

Output Energy:

- Designator: ≥ 160 mJ per pulse
- Rangefinder: ≥ 40 mJ per pulse

Repetition Rate:

- Single shot to 20 Hz
- NATO STANAG 3733 (fully PIM/PRF Compliant)

Beam Divergence:

- Designator: < 200 μRad
- Rangefinder: < 500 μRad

Pulsewidth:

- Designator: 18 +/-5 ns (FWHM)
- Rangefinder 16 +/-5 ns (FWHM)

Energy Stability:

- Designator: < 3%
- Rangefinder: < 5%

Power Consumption:

- Max ≤ 75 watts

Power Supply:

- 28 V DC per MIL-STD-704F

Laser Performance:

- Designator Range: ≥ 30 km
- Rangefinder Range (NATO 2.3 x 2.3 m 10% reflective target with 23 km visibility)
 - ≥ 20 km at 1.570 μm
 - ≥ 17 km at 1.064 μm
- Rangefinder Accuracy
 - ≤ 2 meters at 1.570 μm
 - ≤ 3 meters at 1.064 μm

Weight:

- LTU 5.1 lbs
- LEU 3.75 lbs

Temperature:

- Operating -40°C to +75°C
- Non-Operating -57°C to +85°C

Altitude:

- Operating/Non-Operating
42,000 feet

MTBF:

- > 6,000 Hours
- > 50 Million Shots

Dimensions:

- LTU: 9.84 x 3.85 x 4.05 (Inches)
- LEU: 4.84 x 7.24 x 3.1 (Inches)

**For more information, please contact:**

Northrop Grumman Corporation
Electronic Systems Sector and
Laser Systems
2787 South Orange Blossom Trail
Apopka, Florida 32703 USA
Email: laser-systems@ngc.com

www.northropgrumman.com

Specifications and features subject to change without notice.

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