



1535nm, 300µJ Pulsed Laser Module



1535 nm, 300 µJ Laser Module

- ♦ 1535nm Short-Duration Pulsed Output
- Rugged Design, Wide Operating Temperature Range
- ♦ Passively Q-Switched, Er:Glass Structure
- Eye-Safe for Rangefinders, LIDAR, Obstacle Avoidance Radar, Meteorological Radar
- ♦ Three Models Available:
 - R1535-0.01-5-300-F2: 300 μJ, 10 Hz
 - \Diamond R1535-0.01-5-200-F2: 200 μ J, 10 Hz
 - R1535-0.01-5-100-F2: 100 μJ, 10 Hz

Semiconductor Laser Sources and Control Instruments



1535nm 300µJ, Compact Pulsed Laser Module

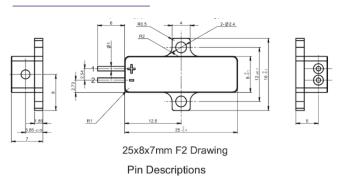
These super-compact high repetition-rate pulsed diode laser modules are perfectly suited to LIDAR, range finding, and meteorological radar applications. The module is a passively Q-switched Er:Glass technology, which delivers very short pulse duration and high stability output over a wide temperature range.

Eye-Safe Wavelength Lasers

Lasers with emission wavelengths longer than 1.4 μ m are often called "eye-safe" because light in that wavelength range is strongly absorbed in the eye's cornea and lens, and therefore cannot reach the significantly more sensitive retina. The degree to which these lasers are truly "eye-safe" depends on the emission wavelength and also on the power level and the optical intensity which can reach the eye. If used improperly these lasers can pose a hazard: it is essential that users take all necessary measures to ensure the safety of the laser operator and bystanders.

The eye-safe characteristic of these 1535nm lasers is particularly important when light needs to be transmitted over substantial distances in open air, such as laser rangefinders, LIDAR, and free-space optical communications.

Mechanical Drawings (in mm)



Pin	Function
1	Laser (+)
2	Laser (-)





A Division of Laser Lab Source 800-887-5065



SPECIFICATIONS

OPTICAL AND ELECTRICAL SPECIFICATIONS - R1535-0.01-5-300-F2

• Output Wavelength: 1535nm

Pulse Energy: 300µJ
Repetition Rate: 10 Hz
Pulse Width: < 5 ns
Operating Current: 12 A

• Full Beam Divergence: < 10 mrad

Beam Profile: TEM₀₀

OPTICAL SPECIFICATIONS - R1535-0.01-5-200-F2

Pulse Energy: 200µJ
Repetition Rate: 10 Hz
Pulse Width: < 5 ns

OPTICAL SPECIFICATIONS - R1535-0.01-5-100-F2

Pulse Energy: 100µJ
Repetition Rate: 10 Hz
Pulse Width: < 5 ns

PACKAGE SPECIFICATIONS

• Weight: 12 g

Dimensions: 25 mm x 8 mm x 7 mm
 Operating Temperature: -40°C - 65°C
 Storage Temperature: -55°C - 80°C



PRODUCT WARRANTY:

This product is sold with a full one year warranty. The warranty includes all parts and labor. It is warrantied to be free from defects in material and workmanship for a period of one year from the date of shipment. The warranty does not include damage to the product due to customer mishandling or use of the product outside of its specified maximum ratings.

INSTALLATION SUPPORT OR TECHNICAL SUPPORT FOR THIS PRODUCT:

800-887-5065 extension 1 contact@laserdiodesource.com



Part of the Laser Lab Source Group:

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