



in f

(<https://www.linkedin.com/company/process-instruments/>) (<https://www.facebook.com/processinstruments/>)

Instruments-

Inc-

150387765039515/)

MENU

Quick Menu

[Customer Support](#)>

[Product Information](#)>

[Application Engineering](#)>

[Installation, Training, Repair](#)>



[Technical Support\(/Support/\)](#) > [Products\(/Support/Products/\)](#) > [Raman Lasers \(/Support/Products/Raman-Lasers/\)](#) > [Low Power Single Mode Laser \(/Support/Products/Raman-Lasers/Low-Powered/\)](#)

Low Powered Diode Laser

Our low powered lasers deliver up to 55 mW of single mode laser power. Similar to our high power lasers, the low powered lasers have excellent frequency and intensity stability, and a long lifetime.



Specifications

Spatial Mode	<ul style="list-style-type: none">• Single-Transverse.
Standard Wavelengths	<ul style="list-style-type: none">• 670 nm, 785 nm, 808 nm, and 852 nm.
Polarization	<ul style="list-style-type: none">• Vertically polarized.
Wavelength Accuracy	<ul style="list-style-type: none">• ± 0.1 nm
Wavelength Repeatability (ON/OFF)	<ul style="list-style-type: none">• STD ~ 0.15 cm^{-1}
Linewidth	<ul style="list-style-type: none">• ~ 1 cm^{-1}
Output Beam	<ul style="list-style-type: none">• Free space (FS).
Power Output	<ul style="list-style-type: none">• Typically 35-45 mW for 785 nm, 45-55 mW for 852nm
Power Monitor	<ul style="list-style-type: none">• Photodiode
Power Requirements	<ul style="list-style-type: none">• 2.5 Amps min. at 12 VDC.
Estimated Lifetime	<ul style="list-style-type: none">• > 9,000 hours (\sim one year)
Warranty	<ul style="list-style-type: none">• 5,000 hours for 785 nm and greater wavelengths.
Temperature Controlled	<ul style="list-style-type: none">• Via Thermoelectric (TE) coolers.

Ambient Operating Temperature

- 15-35°C (Thermal shutdown protection for over temperature.)

Environmental Protection

- Laser diode and optics sealed

Dimensions

- 9.25" x 2.5" x 4.25" (23 cm x 6 cm x 11 cm)

Weight

- ~ 4.4 lbs. (2 kg)



CE 0359



II 1 G, Ex op sh IIC T4 Ga
ITS07ATEX15679X With Safe-Laser Interlock™

Process Instruments Inc. | 630 S. Komas Drive #310 | Salt Lake City, Utah, 84108-
1229

Phone: (801) 322-1235(tel:1-801-322-1235) | Fax: (801) 322-5607

© 2019 Process Instruments Inc. All Rights Reserved. Website by [Velocity Webworks](https://www.velocitywebworks.com/)
(<https://www.velocitywebworks.com/>).