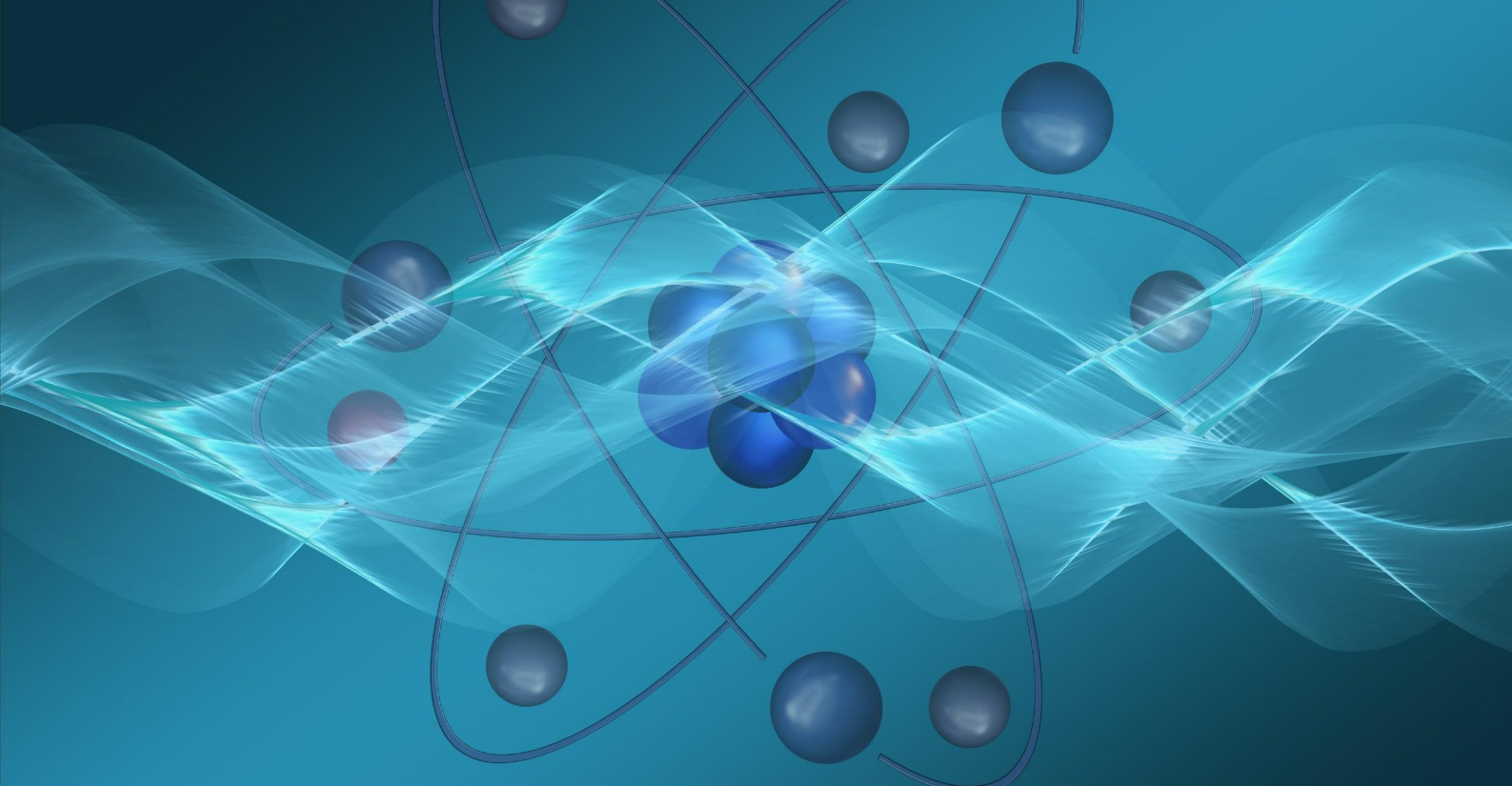




## Raman Fiber Amplifier(1120nm-1300nm)

Precilasers has launched a single-frequency Raman fiber amplifier with an ultra-wide wavelength range of 1120-1300nm. It adopts an ultra-low intensity noise design to achieve an intensity noise of nearly -140dBc/Hz.



### Features

- Excellent beam quality
- Narrow Line Width
- High Power
- Wide wavelength coverage
- Low Noise

### Applications

- Optical communications
- LiDAR
- Interference measurement
- Frequency-doubling fundamental frequency light source
- Mid-infrared parametric oscillator pumping

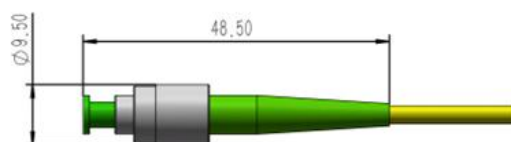
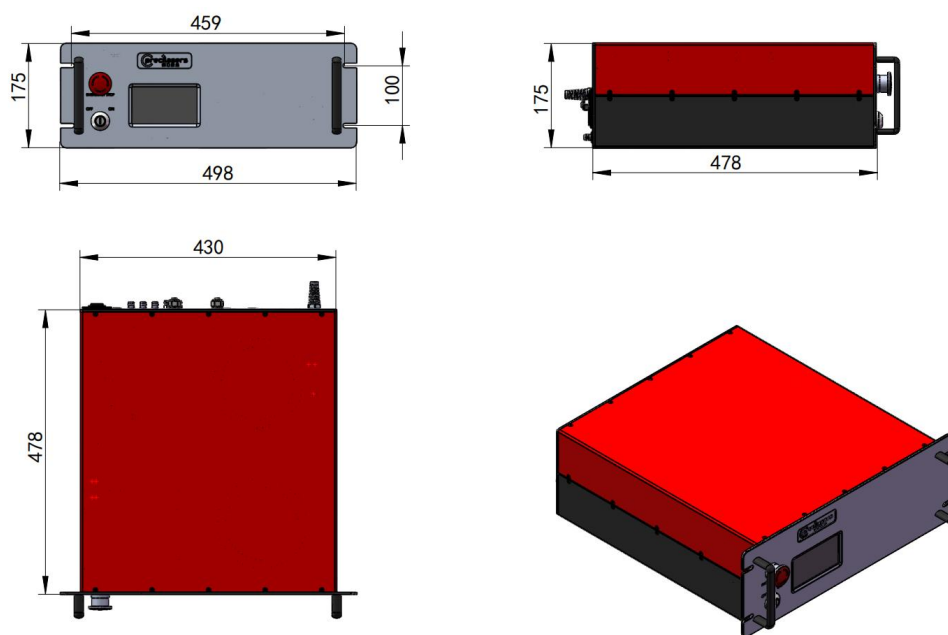
| Specification                        |                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------|
| Partnumber                           | FA-SF-X-Y-CW <sup>(1)</sup>                                                         |
| Range                                | 1120nm-1300nm                                                                       |
| Output Power                         | >1W/8W/30W                                                                          |
| Typical wavelength                   | 1156nm, 1178nm                                                                      |
| Bandwidth <sup>(2)</sup>             | >±5nm                                                                               |
| Relative Intensity Noise             | <0.05% (RMS, 10Hz-10MHz Integration )                                               |
| Power Stability                      | <0.75% @3hours, RMS                                                                 |
| Power Tuning Range                   | 1-100%                                                                              |
| Output Mode                          | Single Mode PM Fiber with FC/APCconnector (Output Power≤5W)<br>OR Collimated Output |
| Beam Diameter                        | 0.6±0.2mm                                                                           |
| Beam Quality                         | TEM <sub>00</sub> , M <sup>2</sup> <1.1                                             |
| Polarization                         | Linear, >23dB                                                                       |
| Seed Laser Input Power               | >10mW <sup>(3)</sup>                                                                |
| Seed Laser Input Isolation           | >25dB                                                                               |
| Output Laser Isolation               | >25dB                                                                               |
| Cooling                              | Air Cooling/ Water Cooling                                                          |
| Operating Environment & Power Supply |                                                                                     |
| Temperature                          | 15-30 °C (Air Cooling) OR 15-35 °C (Water Cooling)                                  |
| Power Supply                         | 100V-240V, AC, 50/60Hz                                                              |
| Communication                        | RS422                                                                               |

(1)X is the center wavelength, Y is the output power, if 15W 1340nm amplifier, the partnumber is FA-SF-1340-15-CW

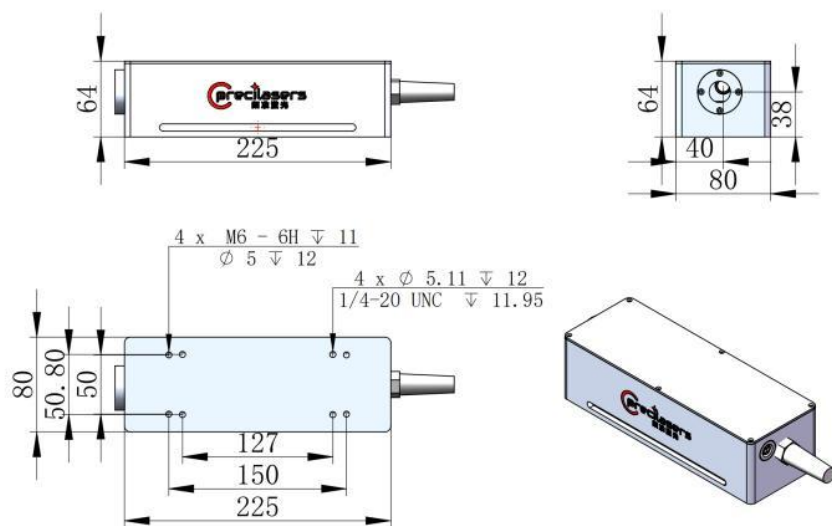
(2) Bandwidth can be customized

(3) Default input power should be 10-50mW, for higher or lower input power, please email us for customization

## Water cooling size

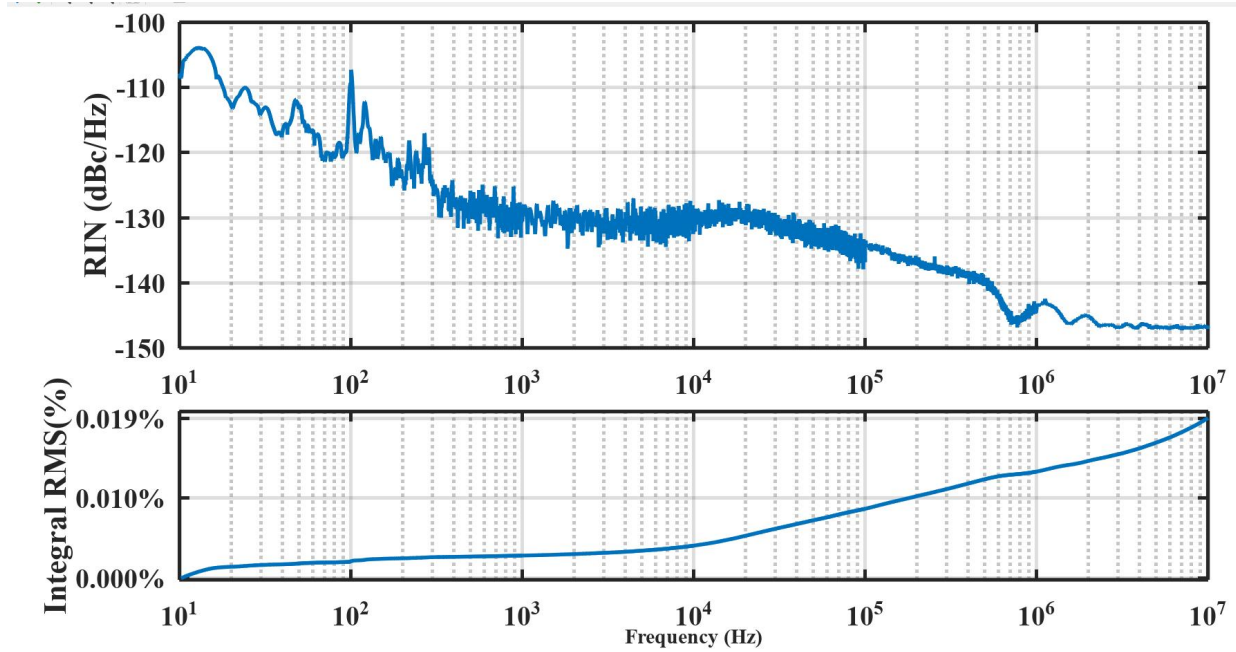


FC/APC connector (Power  $\leq 5W$ )



Laser head size

❖ Performance(typical value)



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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.

CLASS 4 Laser Products