



205-220nm Narrow Linewidth Laser

Based on high-power, low-noise fiber lasers amplification and frequency quadrupling technology, Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 205 to 220 nm.



Features

- Narrow Linewidth
- Low RIN
- High Power
- Power Stability: $<0.75\%$ rms, 3hrs
- Excellent Beam Quality ($M^2 < 1.3$)
- Never Mode-hop
- High Temperature And Vibration Resistance

Applications

- Laser Spectrum

Specification			
Partnumber	FL-SF-XXXX-YY-CW ⁽¹⁾		
Wavelength Range	205-220nm		
Typical Wavelength	220nm		
Operation Mode	CW		
Output Power	> 5mW	> 10mW	> 100mW
Thermal Tuning Range	> 300GHz, Never Mode-hop		
Output Mode	Free Space Output		
Beam Diameter	0.7-1.0mm		
Linewidth ⁽²⁾ (100us)	< 80kHz		
PER	> 20dB		
Power Stability	< 0.75%		
Beam Quality	$M^2 < 1.3$		
PZT Frequency Tuning Range	> 3GHz		
PZT Frequency Tuning Bandwidth	> 5kHz		
Fast Frequency Tuning Range	> 250MHz		
Fast Frequency Tuning Bandwidth	> 1MHz		
AOM Tuning Range (Optional)	> ± 5 MHz		
AOM Tuning Bandwidth (Optional)	> 500kHz		
Cooling	Air Cooling/Water Cooling		
Operation 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)XXXX is the laser center wavelength, YY is the laser power, for a 0.1W 220nm laser,the partnumberis FL-SF-220-0.1-CW

(2)Measured by self-hetrodyne method