

405nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



405nm Narrow linewidth laser Based on single frequency seed laser, low noise fiber amplifier and high efficiency frequency convert technique, Precilasers can provide narrow linewidth 405nm CW lasers, maximum output power is 1W, features with high frequency stability, long life and good beam quality.

- High Power Narrow Linewidth
- Good Beam Quality High
- Power Stability Never Mod
- Hop
- Precision Measurement Interference Lithography
- Laser Spectroscopy Gas Detection

Specifications

Parameter	FL-SF-405-X (1) -CW
Center Wavelength	405.00nm
Linewidth (2) (100 us integration)	<40kHz
Operational Mode	CW
Output Power	>100mW / >1W
Beam Diameter	1±0.15 mm
Beam Waist Location	output aperture±0.5m
Beam Divergence (full angle)	<1mrad
Beam Circularity	0.9-1.1
Beam Pointing Stability (PP)	<50μrad
Beam Quality	TEM00, M ² <1.3
Polarization	linear, >20dB
Power Stability	<0.75% @3hours, RMS
Relative Intensity Noise	<0.2%(RMS, 10Hz-10MHz integration)
Cooling	Air cooling / Water cooling
Cold Start	<2 hours
Warm Start	<30 minutes
Controller Size	≤483mm x 420mm x 266mm (100mW) / ≤483mm x 422mm x 210mm (1W)
Laser Head Size	≤455mm x 225mm x 133.2mm
Chiller Size	NA / ≤58cm x 29cm x 52cm
Chiller Weight	≤25kg
Cable Length Between Laser Head And Controller	>1.5m
Operating Temperature (No condensing)	15-30 °C (Air cooling) / 15-35 °C (Water cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.