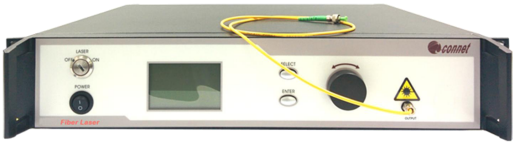
2.0um Band MHz Narrow Linewidth Fiber Laser



Product Description:

Connet 2.0um Band MHz Narrow Linewidth CW Fiber Laser adopts MOPA structure design, built-in MHz level narrow linewidth seed laser such as DFB and DBR to realize the high output power through the optimized design of cascaded fiber amplifiers. Connet has unique suppression technique on fiber nonlinear effects such as stimulated Brillouin scattering (SBS) while ensuring high power output.

Connet 2.0um Band MHz Narrow CW Linewidth Fiber Laser adopts the integrated benchtop design. The important technical parameters are displayed on the LCD on the front panel. The output power is adjustable and easy to operate. It is suitable for laboratory applications. The OEM modular laser can be provided upon request for the convenience of users' system integration.

Applications:

· Atomic cooling and trapping
· Coherent and spectral combination
· Frequency doubling
· LIDAR or sensing
· Test and measurement
· Other scientific research

Features:

· MHz linewidth single frequency output
· Low relative intensity noise
· High frequency stability
· Linear polarization, high PER
· Various wavelengths available

Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		CoNL-2000-MHz-B-LP		
Center wavelength	nm	1908, 1940, 1950, 2004, 2050		
Output power	mW	0.5	-	100
Operation mode		CW		
Output beam quality	M^2	<1.05		
Linewidth	MHz	1	3	10
Side-mode Suppression Ratio (SMSR)	dB	30	40	-
Polarization		Linear		
Polarization Extinction Ratio (PER)	dB	20	-	-
Output power stability	%	-	±0.5	±1.0
Wavelength tunable range	nm	-	0.3	1
Output isolation	dB	35	-	-
Output power tunable range	%	10		100
Operating temperature	℃	10	-	50
Storage temperature	℃	-40	-	85
Power supply	V_{AC}	100-240		
Main output fiber		PM Fiber		
Main output fiber length	m	> 0.5		
Main output fiber connector		FC/APC or Collimator		
Output fiber for seed laser monitor		PM Fiber (optional)		
Fiber length	m	> 0.5		
Fiber connector		FC/APC		
Dimension		19" 2U		

Ordering information:

· CoNL-XXXX-MHz-B-YYYY-FA/Col-LP

XXXX: Operating wavelength

YYYY: Output power in mW

FA: FC/APC, Col: Collimator