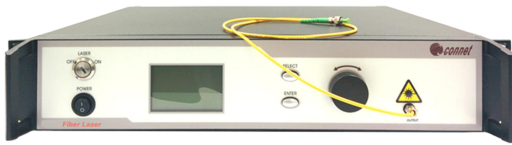


1.0um Band GHz Narrow Linewidth Fiber Laser



Product Description:

Connet 1.0um band GHz Narrow Linewidth Single-frequency Fiber Laser adopts MOPA structure design, built-in single-frequency narrow linewidth seed laser, spectral broadening realized through optimized design of LiNbO₃ phase modulators, output signal linewidth is a few to tens of GHz level. The output linewidth can be easily adjusted by RF signal frequency. Low noise fiber amplifier is used to increase the output power.

Connet 1.0um band GHz Narrow Linewidth Single-frequency Fiber Laser is suitable for high-power narrow linewidth fiber amplification system. The spectral linewidth of GHz is beneficial to greatly increase the SBS threshold and achieve kilowatt-level high-power output, that is a key component for high power spectral combination and coherent combination systems.

Applications:

- Seed laser for kW narrow linewidth fiber amplifier
- Spectrum combination
- Coherent combination
- Other scientific research

Features:

- LiNbO₃ phase modulator for spectrum broadening
- Controllable output linewidth
- Single frequency seed laser
- Low noise
- High frequency stability
- Linear polarization, high PER
- Various wavelengths available



Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		CoNL-10xx-PMSB-B-0050		
Center wavelength	nm	1030	1064	1090
Output power	mW	50	-	-
Operating mode		CW		
Output beam quality	M ²	<1.05		
Linewidth	GHz	1	5	10
Side-mode Suppression Ratio (SMSR)	dB	30	40	-
Polarization		Linear		
Polarization Extinction Ratio (PER)	dB	20	-	-
Output power stability	%	-	±0.5	±2.0
Wavelength tunable range	nm	-	0.3	1
Spectrum broadening		LiNbO3 Phase Modulators		
LiNbO3 E-O bandwidth	GHz	2	-	20
RF signal		Sine Wave, White Noise or Others		
RF signal input		Customer supply		
RF interface		SMA		
RF interface impedance	Ω	50		
Output isolation	dB	35	-	-
Output power tunable range	%	30	-	100
Operating temperature	°C	10	-	50
Storage temperature	°C	-40	-	85
Power supply	V _{AC}	100-240		
Output fiber type		SM Fiber		
Output fiber length	m	> 0.5		
Output fiber connector		FC/APC		
Dimension		19" 2U		

Ordering Information:

· CoNL-10xx-PMSB-B-0050-FA