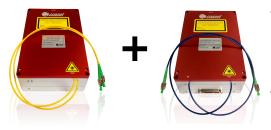


Product Description:



Connet CoLIS-MP series 1550nm nanosecond long pulse singlefrequency polarization-maintaining fiber laser is a modularized pulsed fiber laser specially designed for medium-distance coherent Doppler wind lidar application. Based on eye-safe operating wavelength, this laser can achieve the single-mode linear polarization with the output single-pulse energy up to 50uJ.

CoLIS-MP series 1550nm nanosecond long pulse single-frequency polarization-maintaining fiber laser internally integrates with Connet's proprietary single-frequency narrow linewidth seed laser source with the linewidth being narrow to 10kHz. The extinction ratio can be up to 100dB or more through the cascaded acousto-optic modulator (AOM) to produce a pulse signal with high turn-off ratio.

Connet CoLIS-MP series 1550nm nanosecond long pulse single-frequency polarization-maintaining fiber laser adopts all PM fiber design and can achieve the high polarization extinction ratio (PER) output. The output end can be integrated with high power three-port optical circulator according to the application requirements.

Applications:

AMAT

- · Coherent Doppler Wind LiDAR
- · Environmental Monitoring
- · Pollution Monitoring
- · Other Scientific Research

Features:

- · Eye-safe Wavelength: 1550nm
- · Single Pulse Energy: up to 50uJ
- · Adjustable Repetition Rate: 5-20kHz
- · Pulse Width: 100-1000ns
- Excellent Beam Quality: M²<1.1
- · High Polarization Extinction Ratio (PER)



Specifications:

Parameter	Unit	Specification		
		Min	Тур.	Max
Part no.		CoLIS-1550-M-SF-MP		
Operating wavelength ¹	nm	1545	1550	1565
Peak power ² (@200ns)	W	-	200	250
Pulse energy	uJ	-	40	50
Average power	w	0.5	-	1
Linewidth (Seed Laser)	kHz	1	10	15
Pulse width ³	ns	100	200	1000
Repetition rate ⁴	kHz	5	-	20
Beam quality	M ²	-	1.05	1.1
Pulse on-off ratio (ER Square Wave)	dB	90	100	-
Frequency shift	MHz	-	-	80
Polarization Extinction Ratio (PER)	dB	20	23	-
Output power stability (8hrs)	%	-	±0.5	±1
Built-in circulator		Optional		
Output isolation	dB	35	-	-
Power supply	V _{DC}	12-24		
Operating temperature	°C	-20	-	+50
Storage temperature	°C	-40	-	+85
Output fiber type		PM1550-XP		
Output fiber length	m	>0.5		
Optical connector		FC/APC or other optional		
Output power of intrinsic light	mW	~1		
Output fiber type of intrinsic light		PM1550-XP		
Output connector of intrinsic light		FC/APC		
Dimensions	mm	Seed Laser: 200x135x55 Amplifier: 200x135x41		

Specifications:

- · Other wavelength is optional.
- · For higher output power, please contact Connet.
- · Pulse width is optional. For wider pulse width, please contact Connet.
- \cdot Other repetition rate is optional.

Ordering Information:

- · CoLIS-1550-M-SF-MP-XX-YY-ZZ-FA
- \cdot XX: Pulse width in ns
- \cdot YY: Repetition rate in kHz
- \cdot ZZ: Peak power in W
- · Example: CoLIS-1550-M-SF-MP-200-10-250-FA

1550nm Long Pulse Single Frequency Polarization Maintaining Fiber Laser, 200ns pulse width,10kHz repetition rate, 250W peak power with FC/APC connectors

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