



MARS SERIES

CoLIA-1550-M-SF-LP

Features:

- Eye-safe wavelength: 1550nm
- Pulse energy :up to 120uJ
- Repetition rate adjustable: 10-20KHz
- Pulse width: 200-2000ns

Applications:

- Doppler wind-measurement
- Aerosol detection
- Pollution monitoring
- Other scientific research

1550nm Long Pulse Single Frequency PM Fiber Amplifiers

The 1550nm long pulse single frequency polarization maintaining fiber amplifiers of Connet Laser are designed for long pulse (200ns-2us) application. These modularized fiber amplifiers are an eye-safe wavelength amplifier and the max pulse energy is up to 120uJ.

The 1550nm long pulse single frequency polarization maintaining fiber amplifiers of Connet Laser are suitable for amplifying single frequency narrow-line-width source. The linewidth can be narrowed to kHz level. By multi-stage optical amplification of optimized design, this series of amplifiers suppress nonlinear effects such as stimulated Brillouin scattering (SBS), realize high pulse energy, maintain spectral character of the signal light and obtain near diffraction-limited beam quality at the same time, which are ideal amplifiers for Doppler wind-measurement Lidar.

Specifications:

Parameter	Unit	Specification		
		Min	Typ	Max
Part No		CoLIA-1550-M-SF-LP		
Center wavelength	nm	1530	1550	1561
Peak power @200ns pulse width	W	-	-	600
Pulse energy @200ns pulse width	uJ	-	-	120
Pulse width	ns	200	-	2000
Repetition rate	kHz	10	-	20
Beam quality ¹	M ²	1.05	1.2	1.3
Output power stability(15mins)	%		±0.5	
Output power stability(8hours) ²	%		±1	±1.5
Output isolation	dB	30	-	-
Power supply	VDC	12~24		
Operating temperature	℃	-10	-	50
Storage temperature	℃	-40	-	85
Output fiber type		PLMA fiber		
Output fiber length	m	>0.3		
Output fiber connector		FC/APC or collimator		
Control interface		RS232		
Cooling mode		Air-cooled		
Dimensions	mm	200(L)X135(W)X40(H)		

Specifications:

- The beam quality is related to the output power
- The output power stability is measured under 25℃, after 30 minutes' warm-up;

Ordering information:

- CoLIA-1550-M-SF-LP-XX-YY-ZZ
- XX: pulse width in ns
- YY: Repetition rate in kHz
- XX: Peak power in W;
- Example: CoLIA-1550-M-SF-LP-200-10-100
- Pulse width=200ns
- Repetition rate=10KHz
- Peak power=100W.



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