1560nm Sub-picosecond Pulsed Fiber Laser

Product Description:

Connet 1560nm sub-picosecond pulsed fiber laser adopts the all-fiber design and is an all polarization-maintaining fiber laser based on SESAM passive mode-locked technology. The stable linearly polarized femtosecond laser output can be achieved through the optimized optical path, which is highly reliable and maintenance-free.

Applications:

- Seed laser for fiber laser or fiber amplifier
- Time precision detection
- Test and measurement
- LiDAR
- R&D

Features:

- SESAM passive mode-locked all PM fiber design
- Narrow spectral width<1nm
- Robust and compact
- Sub-picosecond pulse width, MHz repetition rate
- Low amplitude noise
- Maintenance-free operation

Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VFLP-1560-M-fs		VFLP-1560-M-fs
Center wavelength	nm	-	1563±5	-
Pulse width*	fs	100	-	1000
Repetition rate	MHz	40	-	80
Spectral width	nm	10	-	-
Output power	mW	>2		>100
Beam quality	M^2	<1.1		
Polarization		Linear Polarization		
Polarization Extinction Ratio (PER)	dB	20	22	-
Output power stability	%	-	±1	±2
Pulse peak stability	%	-	-	5
Output isolation	dB	35	-	-
Operating temperature	℃	+10	-	+50
Storage temperature	℃	-40	-	+85
Supply voltage	V_{DC}	5.5-12		
Output fiber type		PM1550-XP		
Output fiber length	m	>0.5		
Connector		FC/APC (other options available)		
Dimension	mm	150(L)x125(W)x25(H)		

*Notes: Pulse width can be narrower upon request.

Ordering Information:

· VFLP-1560-M-fs-FA: 1560nm Femtosecond Mode-locking Fiber Laser (Seed Laser)

· VFLP-1560-M-fs-PA-FA: 1560nm Femtosecond Mode-locking Fiber Laser (Seed Laser + Pre-amplifier)

· M: Module