

1550nm Picosecond Pulsed Fiber Laser



Product Description:

Connet 1550nm Picosecond pulsed fiber laser adopts the all-fiber design and is an all polarization-maintaining fiber laser based on NALM 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:

- NALM mode-locked all PM fiber design
- Robust and compact
- Picosecond pulse width, MHz repetition rate
- Low amplitude noise
- Maintenance-free operation

Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VFLP-1550-ps		VFLP-1550-ps-PA
Center wavelength	nm	-	1550±10	-
Pulse width ¹	ps	1	-	20
Repetition rate ²	MHz	20	-	100
Spectral width@3dB	nm	-	-	2
Output power	mW	5		>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	°C	+10	-	+50
Storage temperature	°C	-40	-	-85
Supply voltage	V	DC: 5.5-12VDC or AC: 100-240VAC		
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) or 19" 2U		200(L)x135(W)x41(H) or 19" 2U

Notes:

- 1.The pulse width is a fixed value in the range of 1~20ps.
- 2.The repetition rate is a fixed value in the range of 20~100MHz.

Ordering Information:

- VFLP-1550-M-ps-FA: 1550nm Picosecond pulsed Fiber Laser (Seed Laser)
- VFLP-1550-M-ps-PA-FA: 1550nm Picosecond pulsed Fiber Laser (Seed Laser + Pre-amplifier)
- M: Module, B: Benchtop