

1030nm Picosecond Pulsed Fiber Laser

Product Description:

Connet 1030nm 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 picosecond laser output can be achieved through the optimized optical path, which is highly reliable and maintenance-free. This laser can be used for scientific research or as the seed laser for the high power industrial grade ultrafast pulsed fiber laser.



Features:

- SESAM passive mode-locked all PM fiber design
- Narrow spectral width <math>< 1\text{nm}</math>
- Robust and compact
- 5ps pulse width, MHz repetition rate
- Low amplitude noise
- Maintenance-free operation

Applications:

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



Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VFLP-1030-M-ps		VFLP-1030-M-ps-PA
Center wavelength	nm		1030	
Pulse width	ps	5	-	50
Repetition rate	MHz	20		60
Spectral width	nm			1
Output power	mW	>2		>30
Beam quality	M ²	<1.1		
Polarization		Linear Polarization		
Polarization Extinction Ratio (PER)	dB	20	-	-
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}	5.5-12		
Output fiber type		PM980-XP		PM1060L
Output fiber length	m	> 0.5		
Output fiber connector		FC/APC (other options available)		
Dimension	mm	150(L)x125(W)x25(H)		

Ordering Information:

- VFLP-1030-M-ps-FA: 1030nm Picosecond Mode-locking Fiber Laser (Seed Laser)
- VFLP-1030-M-ps-PA-FA: 1030nm Picosecond Mode-locking Fiber Laser (Seed Laser + Pre-amplifier)