1550nm Nanosecond Fiber Laser

The nanosecond pulsed laser adopts a unique circuit and optical optimization design.The width of the output laser pulse,peak power and repetition frequency are all adjustable.The working wavelength and power output are stable.It features single-mode fiber output and modular design for easy system integration,making it suitable for distributed optical fiber sensing systems.
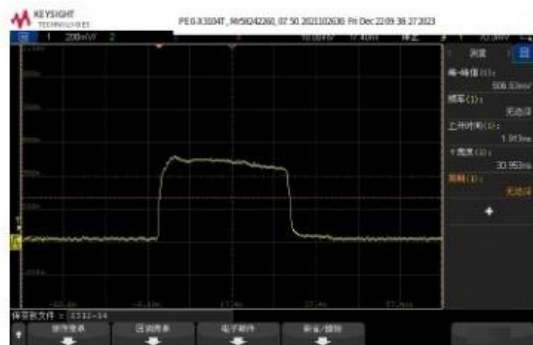
30 ns / 100 kHz / 0.3 A

Features
All-fiber structure
The pulse width, repetition frequency and power are adjustable.
Desktop or module packaging

Application
Lidar
Nonlinear optics
Distributed Temperature Sensing (DTS)

Optical indicators	unit	Typical value	Note
Central wavelength	nm	1550±1	
Spectral width	nm	≤1	
Output peak power	W	Adjustable from 5 to 50	The maximum power can be customized
Pulse width	ns	Adjustable from 5 to 30	Pulse width is customizable.
Repetition frequency	kHz	Adjustable from 1 to 10	
Short-term stability(15 minutes)	dB	±0.02 or less	Equivalent≤±0.5%
Long-term stability(8 hours)	dB	±0.05 or less	Equivalent≤±1.2%
Fiber pigtail type	-	SMF-28	
Fiber pigtail connector type	-	FC/APC	

Electrical and environmental parameters	Desktop	Module
Control mode	Key input/RS232 serial communication	RS232 serial communication
Communication interface	DB9 Female	DB9 Female
Triggering method	TTL,internal/external trigger(optional)	TTL,internal/external trigger(optional)
Power su pply	100~240V AC,<30W	5V DC,<15W
Size	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operating temperature range	-5+35 C	
Working humidity range	0 to 70%	

Ordering Information/Model				
NSFL	Working wavelength(nm)	Maximum peak power(W)	Output pigtail type	Encapsulation form
	1550	10/30/50	SM=SMF-28	M=module B=desktop