1550nm High-Power Nanosecond Pulse Fiber Laser

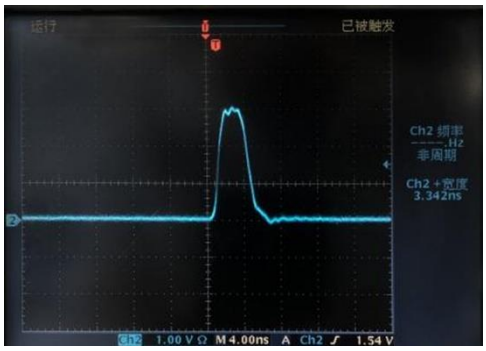
1550nm High power nanosecond pulse fiber laser adopts high power gain fiber module and special driving and temperature control circuit to output high peak and high energy laser pulses. The laser is suitable for lidar, distributed optical fiber sensing system and other applications.

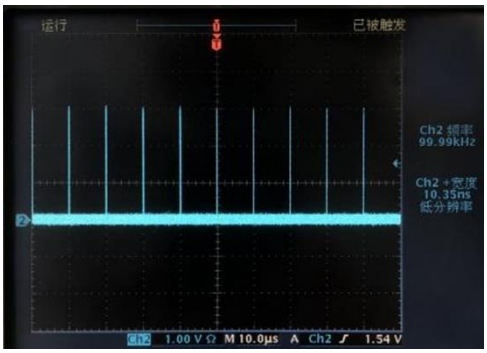
Characteristics

- Fiber Laser
- High Output Power
- Narrow Pulse Duration

Applications

- LiDAR
- Nonlinear Optics
- Fiber Distributed Sensing





Optical Parameters	Unit	Typical Value	Remarks
Wavelength	nm	1550±1	
Pulse Energy	μJ	100	@≤10kHz
Pulse Peak Power	kW	1～10	tunable
Pules Duration	ns	1～250	tunable
Pulse Repetition Rate	kHz	1～3000	tunable
Input/output Isolation	dB	≥30	
Average Power	W	2	@≥100kHz
Polarization	-	Random	
Optical Fiber	-	SMF-28 单模光纤	
Fiber Connectors	-	FC/APC	

General Parameters	Bench-top	Module
Control function	Key lock switch, Push button	RS232 serial Communication
Remote Control Port	Optional	DB9 Female
Trigger	TTL，External	TTL，External
Power Supply	AC100~240V, <30W	DC 5V，<30W
Dimensions	260(W)×320(D)×120(H)mm	90(W)×100(D)×30(H)mm
Operation Temperature	-5~+35°C	
Operation Humidity	0~70%	

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Ordering Information/ Product Code				
HPNLFL	Wavelength(nm)	Pulse Peak Power(kW)	Fiber	Packaging
	1550	1/5/10	SM= SMF-28	M=Module B=Bench-top