

1550nm Ultra-Narrow Linewidth Fiber Laser

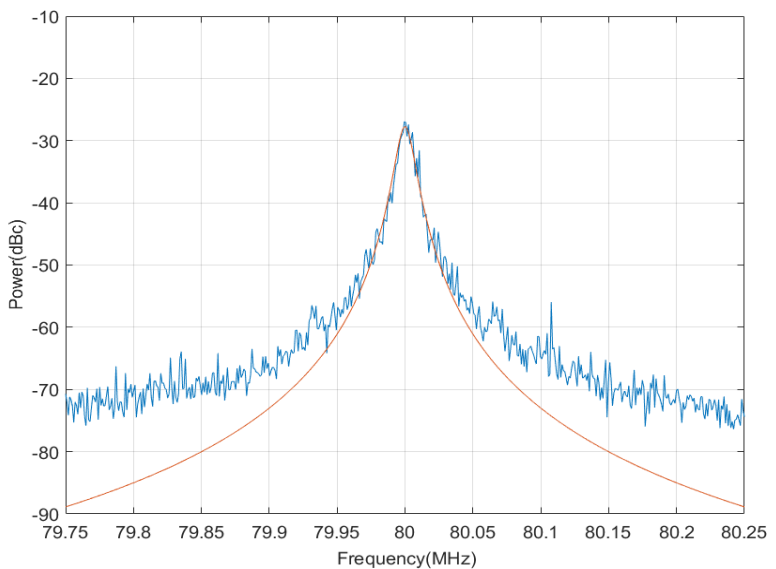
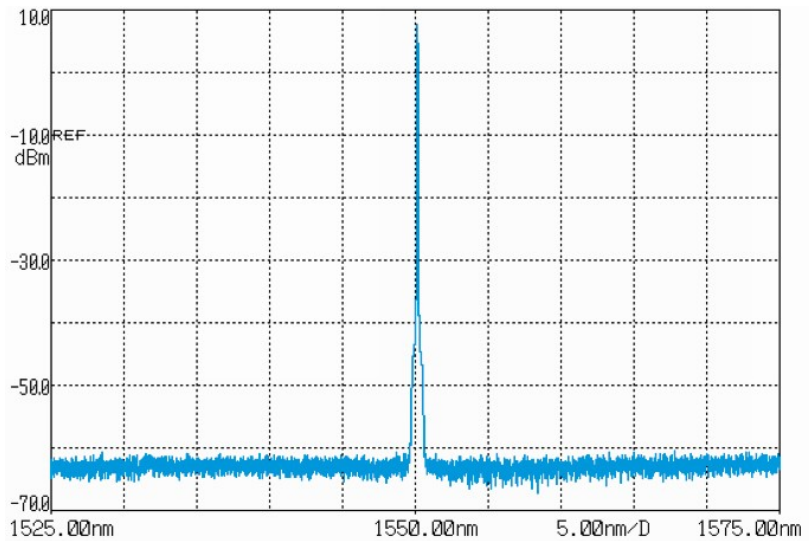
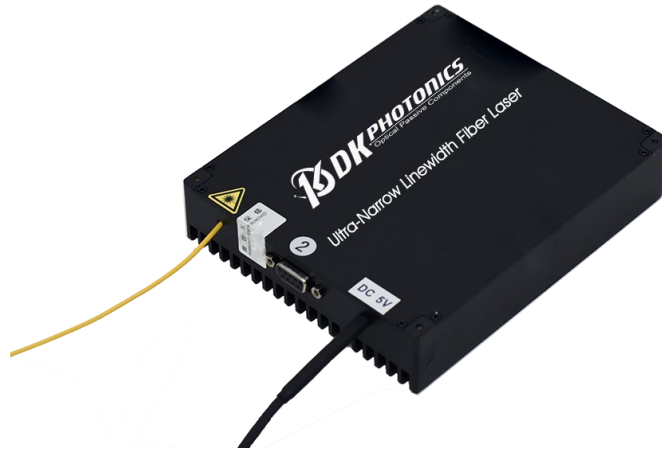
Single frequency narrow linewidth fiber laser adopts rare earth-doped fiber DFB laser cavity structure, output wavelength 1550nm single longitudinal mode laser, spectral linewidth is less than 3kHz, output spectral side mode suppression ratio exceeds 60dB, can provide module or desktop package, it is distributed Ideal laser source for applications such as sensing.

Key Features

- Spectral Line-width \leq 3KHz
- All-fiber DFB resonator structure
- Stable wavelength without mode hopping

Applications

- Laser Seed Source
- Acoustic Sensor, Hydrophone
- Fiber Distributed Sensing
- Coherent Light



For more Info

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Performance Specifications 1550nm Ultra-Narrow Linewidth Fiber Laser

Optical Parameter	Unit	Typical Values	Remark
Wavelength tuning range	nm	1550±0.5	1545~1560nm customized
Spectral linewidth	kHz	≤3	
Wavelength instability	MHz	≤±25	
Side mode suppression ratio	dB	≥50	
Output power	mW	50/100	Constant and not adjustable
Short-term Stability (15 Minutes)	dB	≤±0.02	
Long-term Stability (8 Hours)	dB	≤±0.05	
Fiber Type	-	SMF-28 / PM1550 Panda	
Optical Connector	-	FC/APC	

Electrical and environmental parameters	Desktop	Module
Control Mode	Button	RS232
Communication Interface	* Optional	DB9 Female
Power Supply	100~240V AC, <30W	5V DC, <15W
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operation Temperature Range	-5~+55°C	
Operation Humidity Range	0~70%	

Order information P/N: ①-②-③-④-⑤

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better.

①	②	③	④	⑤
NLFL	Wavelength Range	Output power (mW)	Fiber Type	Package Type
	1550:1550nm	50/100	SM: SMF-28e	M: Module
			PM: PM1550 panda	B: Desktop

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.