1550nm continuous high speed scanning wavelength laser source 20mW FC/APC

Product Description

The scanning wavelength laser uses a dedicated VCSEL laser chip, which can achieve high-speed scanning of laser wavelength and single-mode fiber coupled output. Professionally designed drive and temperature control circuit control ensures stable operation of the laser, and can provide benchtop or modular packaging.

Product features

High output power、 Wide spectrum scanning、 High-speed scanning

Part Number

MP-SFL-1550-20-SM-B

Application area

FBG fiber sensing、 Fiber laser、 Optical communication

Core parameters

Center wavelength	Output power	Fiber pigtail connector type
1550nm	20mW	FC/APC

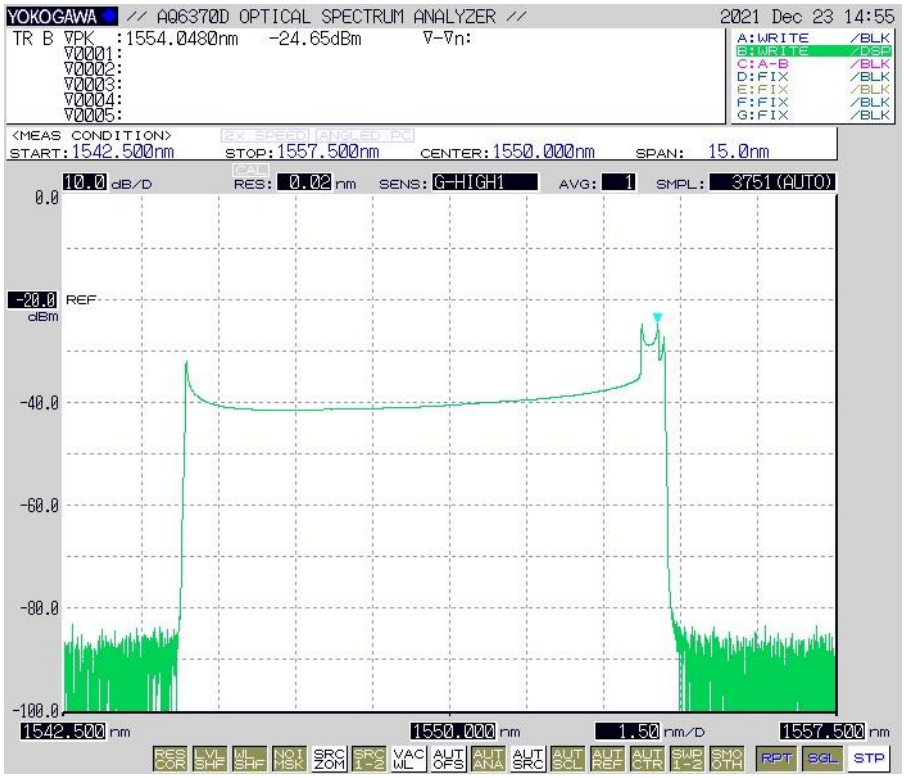
General Parameters

Parameter

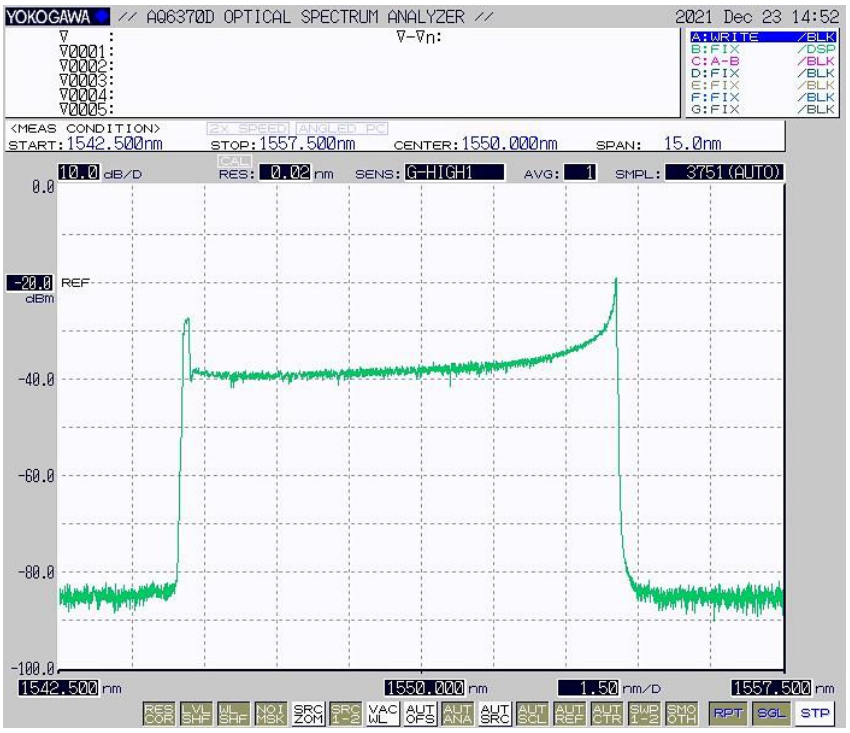
Parameter	Unit	Typical	Notes
Wavelength scanning range	nm	1543~1551	⩾8nm
Scanning frequency	kHz	0.1~100	adjustable
Spectral line width	MHz	⩽100	Equivalence ⩽ 0.8pm
Minimum scanning step length	pm	8	1GHz
Sideband suppression ratio	dB	>50	
Output power	mW	⩾20	

Short-term stability (15 minutes)	dB	⩽ ±0.02	Single wavelength full temperature
Long-term stability (8 hours)	dB	⩽ ±0.05	Single wavelength full temperature
Fiber pigtail type	-	SMF-28 or PM1550	
Fiber pigtail connector type	-	FC/APC	

Electrical and environmental parameters	Benchtop	Module
Control mode	Button	RS232 Serial communication
Communication interface	Optional	DB9 Female
Power supply	100~240VAC,<30W	5V DC,<15W
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Synchronous trigger pulse	TTL，internal trigger	
Operating temperature range	-5~+35°C	
Operating humidity range	0~70%	



Spectrum @100kHz scan



Spectrum @200kHz scan

Ordering information

Ordering information / PN#				
MP-SFL	Operating wavelength(nm)	Output power(mW)	Output pigtail type	Package method
	1550	20	SM=Single mode fiber; PM=Polarization fiber	B=Benchtop; M=Module