

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

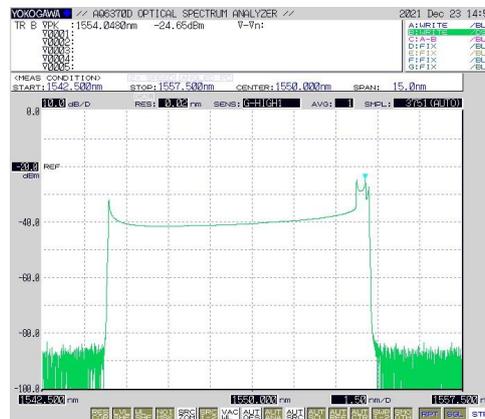
Parameter	Unit	Typical	Notes
Wavelength scanning range	nm	1543~1551	≥ 8 nm
Scanning frequency	kHz	0.1~100	adjustable



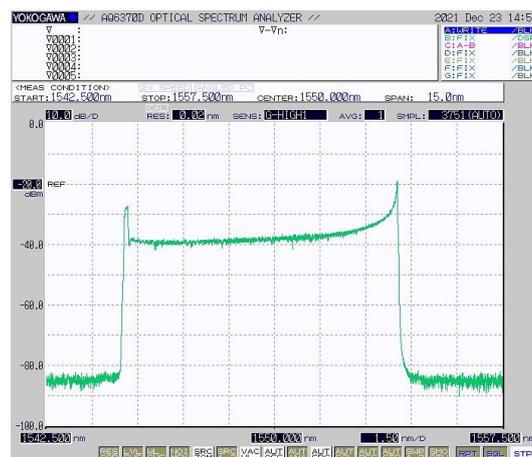
Spectral line width	MHz	≤100	Equivalence ≤ 0.8pm
Minimum scanning step length	pm	8	1GHz
Sideband suppression ratio	dB	>50	
Output power	mW	≥20	
Short-term stability (15 minutes)	dB	≤ ±0.02	Single wavelength full temperature
Long-term stability (8 hours)	dB	≤ ±0.05	Single wavelength full temperature
Fiber 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