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

Product Description

The ultra-wideband SLD light source uses multiple bands of super-radiant light sources to combine and splice the spectrum, achieving single-mode fiber output covering an ultra-wideband spectrum of 1250-1650nm wavelength, while having a high optical power spectrum density. It is suitable for passive device testing, fiber optic sensing and other applications.

Part Number

SFL-1550-20-SM-B

Product features

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

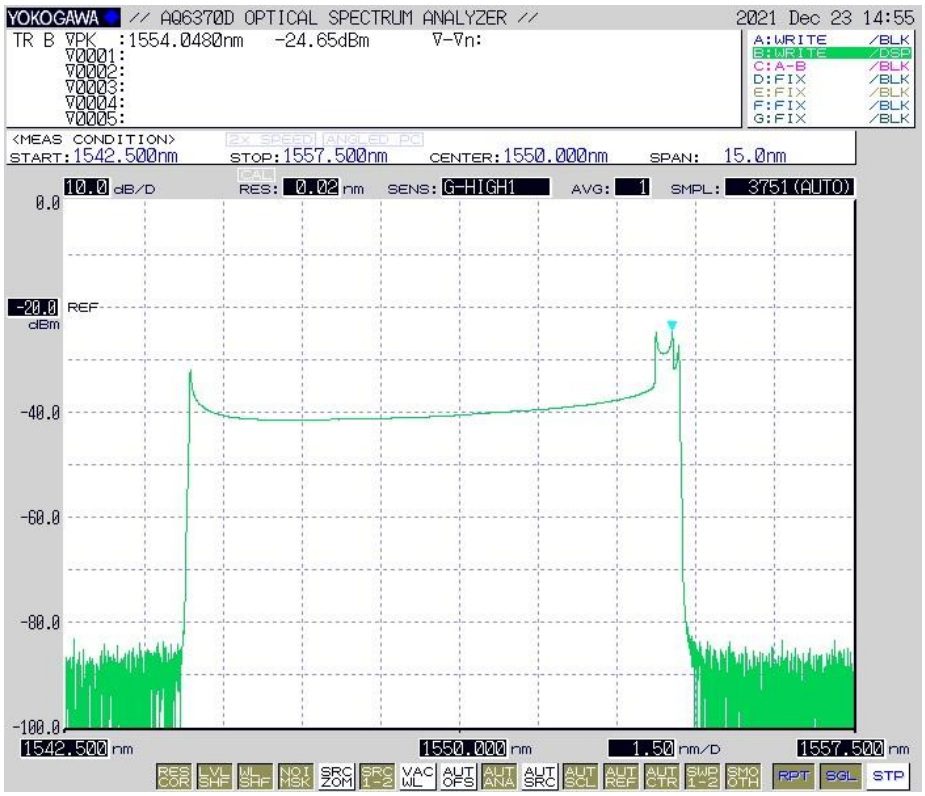
Application area

FBG fiber sensing、 Fiber laser、 Optical communication

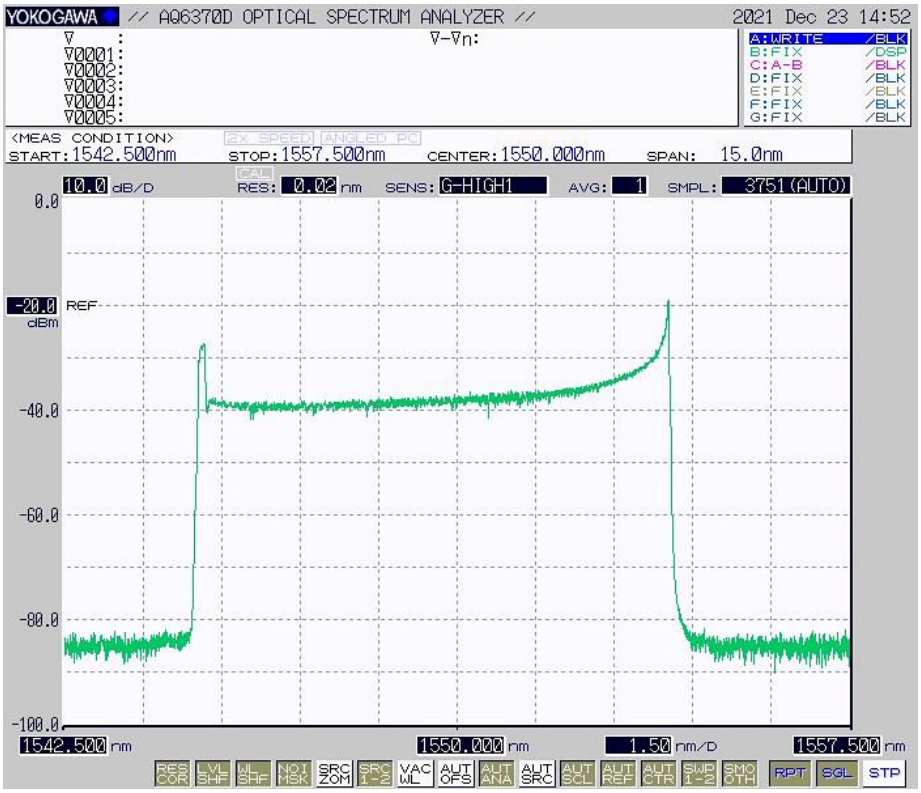
Parameters

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#				
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