

1577nm High stability DFB lightsource



Description:

The wavelength tuning range of the light source covers C-band and realizes continuous laser output of up to 96 wavelengths (ITU-T standard wavelength, wavelength interval of 50GHz). Integrated with adjustable filter and high gain chip, it has the characteristics of high output optical power, narrow linewidth and high wavelength accuracy. It is equipped with special drive and control circuit, high-definition color LCD screen, and upper computer software. Users can easily tune the wavelength accurately. It can be used in the fields of optical fiber link, DWDM, optical fiber testing, etc.

Features:

- 2nm Tunable wavelength
- High power stability
- High SMSR

Applications:

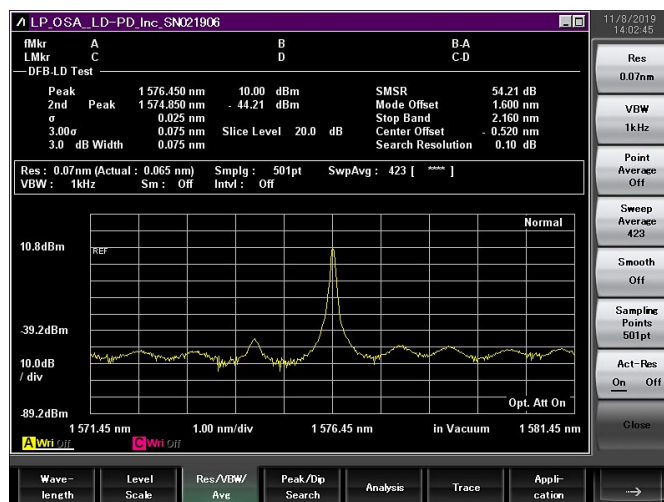
- Tunable diode laser absorption spectroscopy
- CO₂ Monitoring

Specifications:

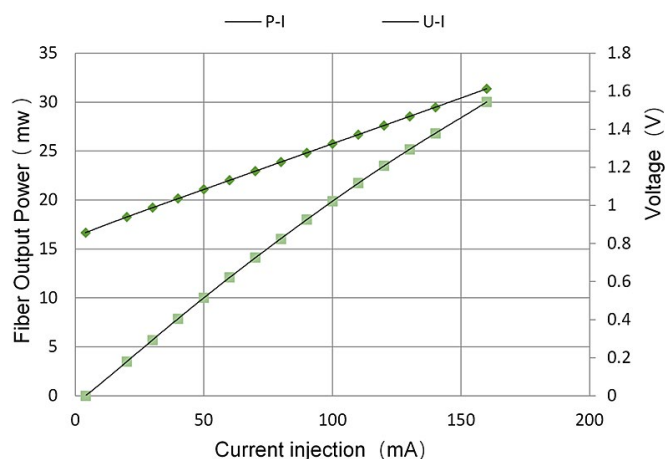
Electrical/Optical Characteristics (Tsub=25°C, CW bias unless stated otherwise)

Parameter	Symbol	Min	Typ	Max	Unit
Centre Wavelength	λ	1576	1577.0	1578	nm
Side Mode Suppression Ratio	SMSR	30	40		dB
Threshold Current	I _{th}		20	30	mA
Operating Current	I _{op}		80	120	mA
output Power	P _f	10	15	30	mW
Quantum Efficiency	η	0.08	0.12		mW/mA
Current Tuning Coefficient	$\Delta\lambda/\Delta I$		0.015		nm/mA
Temperature Tuning Coefficient	$\Delta\lambda/\Delta T$		0.12		nm/K
Forward Voltage	V _f		1.3	2	V
Thermistor Resistance	R _T	9.5	10	10.5	K Ω
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

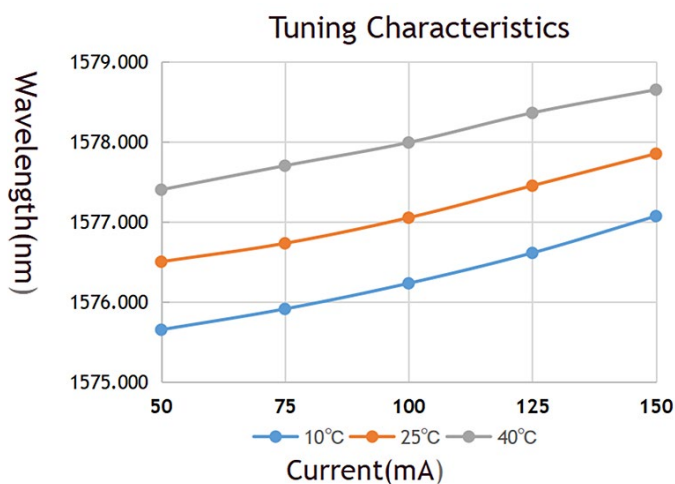
Spectrum:



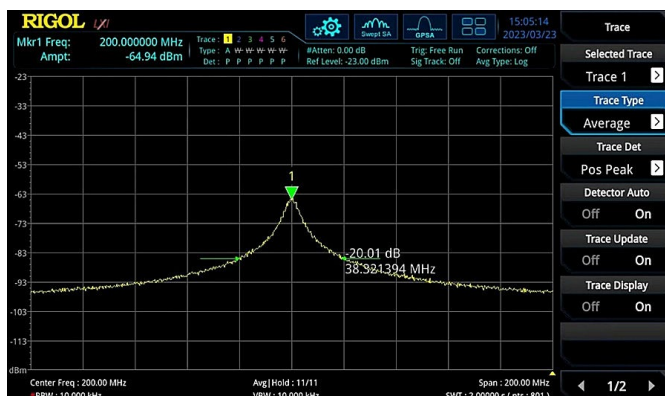
L-I Curve:



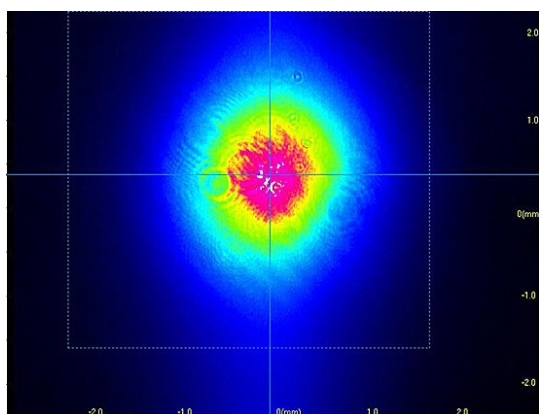
Wavelength Tunable Range:



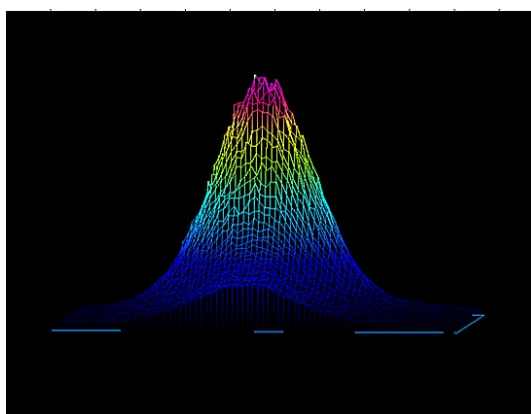
DFB Linewidth Testing Result:



Beam Quality:

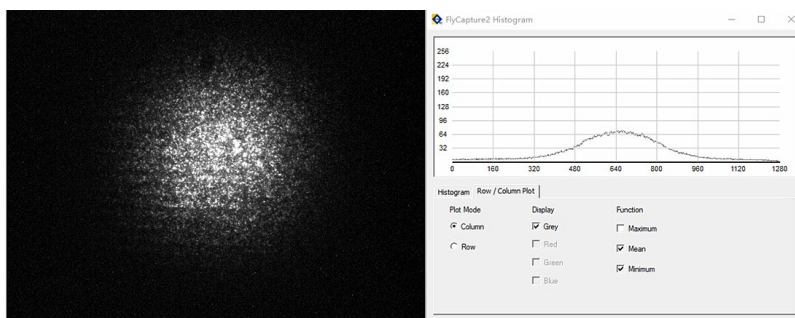


2D



3D

Camera Analysis:



Ordering Info:

Ordering information / model				
DFB-L	Wavelength	Output power (mW)	Output pigtail type	Packaging form
	1270=1270nm	10/30	SM= SM fiber	B= Bench Top
	1550=1550nm		PM= PM fiber	M= Module
	1577=1577nm			