



6317A

Tunable Laser Source

(1480nm ~ 1680nm)



Ceyear Technologies Co., Ltd.

Product Overview

Ceyear 6317A Tunable Laser Source is a newly released high performance tunable laser source. Its high-accuracy motion system and precision optical resonator enables high power, narrow linewidth, and mode hopping free continuous sweeping output in full wavelength range with sweeping speed of 1~200nm/s. It can achieve coherent control, fine tuning and remote control. Ceyear 6317A is an ideal tunable laser source for testing and measurement in fields of optical communication, optical coherence, optical sensing, and precision spectroscopy, etc.

In order to provide complete solutions for testing and measurement in the field of optical communication, 6317A tunable laser source can match with optoelectronic testing instruments of Ceyear, such as 6433 series lightwave component analyzer, 6362 series optical spectrum analyzer or 9951 series lightwave measurement platform, etc.

Main Features

- Full-range mode-hopping-free design, which can realize continuous wavelength sweeping in 1500nm~1600nm, with sweeping speed up to 200nm/s;
- High-wavelength precision design, which can achieve 0.1 pm tuning resolution and $\pm 20\text{pm}$ absolute wavelength accuracy;
- Narrow linewidth design, which can achieve linewidth around 100 kHz, and can be used in DWDM test, coherence test and other fields;
- High power stable output design, with peak output power greater than 13dBm and $\pm 0.01\text{dB}/15\text{min}$ power stability within $23^{\circ}\text{C}\pm 2^{\circ}\text{C}$.
- Different options to cover 1480nm to 1680nm.



Technical specifications

Items	Unit	Performance
Wavelength Tuning Range	nm	1500 ~ 1600
Wavelength Setting Resolution	pm	0.1
Absolute Wavelength Accuracy	pm	±20 (Typical: ±3)
Repeatable Wavelength Accuracy	pm	±5
Wavelength Stability [1]	pm/1h	±1.5
Continuous Sweep Speed	nm/s	1 ~ 200
Full Tuning Range Output Power	dBm	10
Peak Output Power	dBm	13
Power Stability [1]	dB/1h	±0.01
Linewidth	kHz	≤200
SMSR	dB	≥45
Signal to Source Spontaneous Emission Ratio [2]	dB/nm	≥50
Optical Output Connector	/	FC/APC
Communication ports	/	LAN, BNC, GPIB
Dimensions (W) x(D) x(H)	mm	213 × 133 × 451
Weight	kg	≤8
Power Supply	/	100VAC -240VAC, 50Hz/60Hz
Power Consumption	W	≤80
Environmental Conditions	/	Operating temperature: 15°C ~ 35°C Storage temperature: -20°C ~ 55°C Humidity: ≤80%

[1]: Within 23°C±2°C.

[2]: The ratio between signal power (within ±1 nm band) and maximum source spontaneous emission power (within ±3 nm band).

Ordering information

- **Main Unit:** 6317A tunable laser source
- **Standard Accessories:**

No.	Name	Description
1	Power cord	Standard three-core power cord
2	Operation Manual	
3	Certificate	

Options:

Option	Name	Function
6317A-H01	Wide wavelength option	High performance with 1480nm to 1610nm output
6317A-H03	Wide Wavelength range	High performance with 1480nm to 1650nm
6317A-H04	Wide Wavelength range	High performance with 1500nm to 1680nm
6317A-H05	English version	

Ceyear
Focus on Measurement
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