



epIQ-Laser-1001

epIQ-Laser™

Swept Laser Source

SPEC SHEET

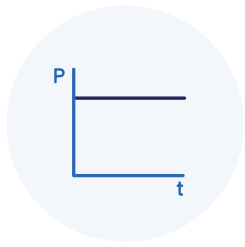
Coherent Solutions' high-performance epIQ-Laser™ is a swept tunable continuous wave (CW) laser source.

epIQ-Laser uses a high quality grating paired with state-of-the-art micro-electromechanics tuning mechanism for quick, voltage-controlled wavelength tuning and exceptional reliability.

With 0.01 dB power stability and 400 nm/s high-speed scan rate, it is the perfect time-saving tool for R&D applications as well as production testing.



Features



High power stability

Highly stable output power ensures accurate and consistent test and measurement results.



Fast sweep speed

Save time on your DUT characterization or speed up your measurement with epiQ-Laser's rapid sweep speed.



No moving bulk optics

State-of-the-art MEMS technology and no moving bulk optics offer reliable wavelength tuning.



Wide coverage of wavelength options

Choose from a wide range of operating wavelength ranges to suit your specific application.



Trigger at the start of each scan

The trigger output from the laser allows synchronization to the start and stop of each wavelength sweep.



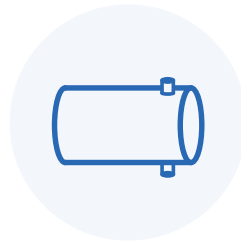
Fine tuning resolution

Set the exact wavelength you need with epiQ-Laser's precision micro-electromechanics tuning.



Swept or step-tuning modes

Intuitive software GUI makes it simple to configure the epiQ-Laser in fixed, continuous or step tuning modes.



Analog output of output power

Provides a real-time reference of the laser's power output for an easy integration into automated test set-ups.

Target Applications

- Optical component characterization
- High density fiber-optic sensor interrogation
- Biomedical imaging applications

Technical Specifications

General Specifications	1001	1002	1003	1004	1005	1006
Operating wavelength range ¹	1260 to 1340 nm	1260 to 1420 nm	1520 to 1580 nm	1260 to 1340 nm	1260 to 1420 nm	1520 to 1580 nm
Output power (one port)	≥ 5 mW	≥ 2 mW	≥ 10 mW	≥ 5 mW	≥ 2 mW	≥ 10 mW
Power stability ²	± 0.01 dB					
Power repeatability ³	≤ ± 0.05 dB					
Wavelength stability ²	≤ ± 10 pm					
Wavelength tuning resolution	≤ 10 pm					
Signal to Source ASE Ratio ⁴	≥ 60 dB					
Linewidth (FWHM)	0.1 ~ 0.3 nm	≤ 0.3 nm		<200 MHz		
Step tuning time	50 ms					
Maximum sweep speed	400 nm/s			120 nm/s		
Power supply	110/220 V; 50/60 Hz; 60 W					
Trigger output (BNC)	4 V pulse during sweep, 0 V when sweep has completed			4 V pulse every 10 pm		
Analog power output (BNC)	0-4 V linearly proportional to laser power in mW					

SPECS AS AT APRIL 2019

Notes

1 Wavelength is calibrated as "Mean wavelength".

2 When measured after warm-up time, measurements over 1 25±1C.

3 For output power > 0 dBm with Tuning Speed 100nm/s, repeated over 100 measurements

4 ASE is measured at 0.1 nm bandwidth and +1 nm away from center wavelength



Ordering Information

LaserEpIQ - XXXX - XX

Model number

1001 = 1260 to 1340 nm wavelength range,
5 mW output power, 0.1 ~ 0.3 nm linewidth

1002 = 1260 to 1420 nm wavelength range,
2 mW output power, 0.1 ~ 0.3 nm linewidth

1003 = 1520 to 1580 nm wavelength range,
10 mW output power, ≤ 0.3 linewidth

1004 = 1260 to 1340 nm wavelength range,
5 mW output power, <200 MHz linewidth

1005 = 1260 to 1420 nm wavelength range,
2 mW output power, <200 MHz linewidth

1006 = 1520 to 1580 nm wavelength range,
10 mW output power, <200 MHz linewidth

Connector type

FC = FC/PC

FA = FC/APC

SC = SC/PC

SA = SC/APC



Product Warranty

This product comes with a 3 year warranty.

About Coherent Solutions

Coherent Solutions is a world-leader in photonics test and measurement. Our portfolio of benchtop and modular test instruments is rapidly expanding to meet the needs of scientists, engineers and manufacturers around the world. No matter where you are, we'll work with you to solve complex problems with simple, intuitive solutions.

To find out more, get in touch with us today.

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