

UC INSTRUMENTS GM82009xx PC Control Tunable Laser Source Modules

Technical Specifications Ver 1.03
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GM82009xx Tunable Laser Source Module

The GM82009C, GM82009L and GM82009CL tunable laser modules offer superior performance for the test of DWDM components, AWG & PLC components, optical amplifiers, and other general purpose of fiber optical test and measurement applications. Especial for fiber grating sensor fast sweep testing.

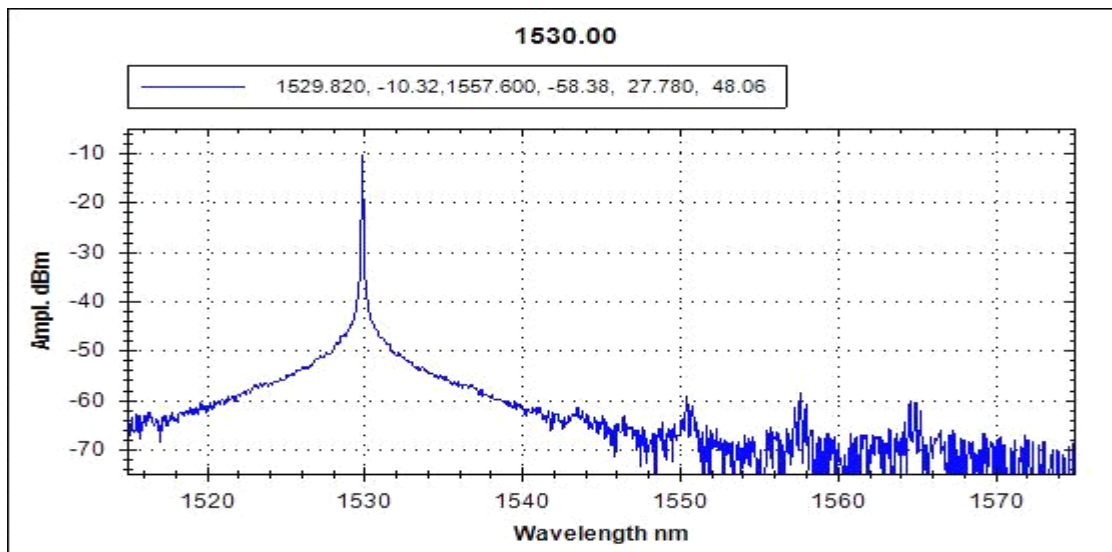
Each of GM82009C, or GM82009L, or GM82009CL tunable laser modules is connected to a PC with RS232 cable. It becomes a High Accuracy, High Power, Small Dimension, Fast Startup, Affordable Tunable Laser Source system. It provides C band, L band, or C+L band tunable laser sources options. UC Instruments also provide modules control software. These module also can be integrated into customers' products system with RS232 interface control and output trig BNC port.

Features

- High wavelength accuracy
- Quick startup
- High power
- Small dimension
- Affordable price
- Fast Tuning Speed

Applications

- Fiber sensors fast sweep test
- WDM, GFF, Isolator, AWG, PLC components test
- Fiber Sensor test
- PMD and PDL measurement
- Fiber Optical , Telcom R & D lab test and system integration



Specifications

Model #	GM82009C	GM82009L	GM82009CL
<i>Wavelength range</i>	1525.00 to 1566.00 nm	1566.00 to 1610.00 nm	1525.00 to 1610.00 nm
<i>Output Power</i>	>= 13 dBm	>= 10 dBm	>= 7 dBm
<i>Wavelength resolution</i>	1.0 pm		
<i>Absolute wavelength accuracy</i>	+/- 10 pm, tpy. < 5 pm		
<i>Relative wavelength accuracy</i>	+/- 5 pm, Typ. +/- 2 pm		
<i>Wavelength repeatability</i>	+/- 2 pm, typ. +/- 1 pm		
<i>Wavelength stability (typ., 24 hrs at constant temperature)</i>	<= +/- 2 pm		
<i>Tuning speed</i>	<= 2 ms per step		
<i>Power stability</i>	+/- 0.05 dB, 1 hour. Typ., +/- 0.1 dB, 24 hours.		
<i>Power repeatability</i>	+/- 0.05 dB		
<i>Power linearity</i>	+/- 0.3 dB		
<i>Power fiatness versus wavelength</i>	0.3 dB typ., 0.5 dB max.		
<i>Side-mode Suppression ritio</i>	>= 45 dBc		
<i>Relative intensity noise(RIN. Typ.)</i>	< -135 dB		
<i>Output optical interface</i>	PM, FC/PC connector		
<i>Interface</i>	RS232		
<i>Output trig port</i>	BNC trig		
<i>Power</i>	3.3 V; 3 A		
<i>Dimensions</i>	35 mm H, 130 mm W, 170 mm D		
<i>Weight</i>	0.5 kg		

UC INSTRUMENTS' Test and Measurement Support, Services and Assistance

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instruments solution for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your application and apply them successfully. Every instruments and system we sell a global warranty. All of our instruments with at least 18 months factory warranty.

Our Promise

All of UC INSTRUMENTS' test and measurement instruments and system will met its advertised

performance and functionality. When you select UC INSTRUMENTS' products, we can verify if it is work properly, help with products operation, and provides the basic measurement assistance for the use of special capabilities.

Contact Information

United States:

UC INSTRUMENTS CORP.

37498 Glenmoor Dr.

Fremont, CA 94536

USA

Tel: 1-510-366-7353

Fax: 1-510-795-1795

www.ucinstruments.com

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