

UC INSTRUMENTS GM82014C PC Control Tunable Laser Source Modules

Technical Specifications Ver 1.01
Jan., 2011



GM82014xx Tunable Laser Source Module

The GM82014C, GM82014L and GM82014CL 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 testing.

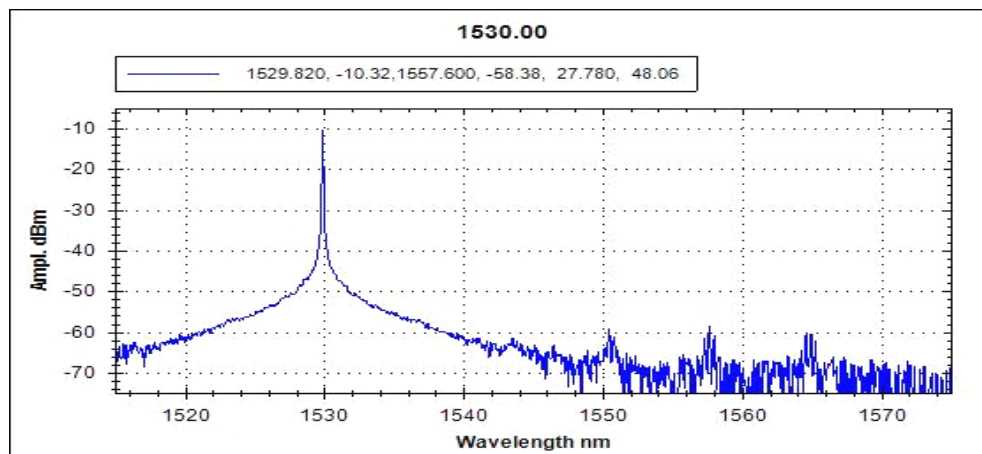
Each of GM82014C, or GM82014L, or GM82014CL tunable laser modules is connected to a PC with RS232 cable. It becomes a High Accuracy, High Power, Small Dimension, Fast Startup, Affordable Tunable Laser Source system. It provides C band, L band, or C+L band tunable laser sources options. UC Instruments 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

Applications

- Fiber sensor 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 #	GM82014C	GM82014L	GM82014CL
<i>Wavelength range</i>	1528.00 to 1566.00 nm	1566.00 to 1610.00 nm	1528.00 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, typ. < 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>	$\leq \pm 2$ 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 flatness versus wavelength</i>	0.3 dB typ., 0.5 dB max.		
<i>Side-mode Suppression ratio</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

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Nov, 2010

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