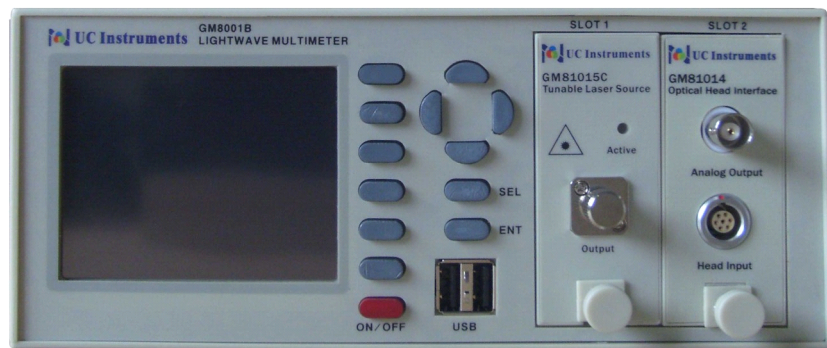


# UC INSTRUMENTS GM81022xx Tunable Laser Source Modules

Technical Specifications Ver 1.02  
Jan., 2011



# GM81022xx Tunable Laser Source Module

The GM81022C, GM81022L and GM81022CL 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.

A GM8001B mainframe can host 2 of each GM81022C, or GM81022L, or GM81022CL tunable laser modules. 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 can provide high channel count solution up to 16 channels.

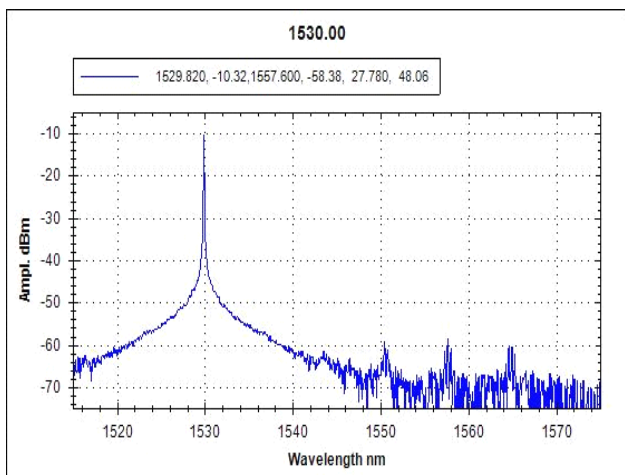
## Features

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

## Applications

- WDM, AWG, PLC Components Test
- PMD and PDL Measurement
- Fiber Optical , Telcom R & D Lab Test
- Fiber Grating Sensors Test

<b>Slot1 GM81015</b> $\lambda = 1564.9900$ P = 13.0 dBm State ●	<b>Detail</b>
<b>Slot2 GM83001</b> P = -40.993dBm $\lambda = 1526.0$ nm AvTime = 1 ms	<b>Edit</b>
	<b>Laser Off</b>
	<b>Set Max</b>
	<b>Unit</b>
	<b>More</b>



## Specifications

<b>Model #</b>	<b>GM81022C</b>	<b>GM81022L</b>	<b>GM81022CL</b>
<i>Wavelength range</i>	<b>1525.00 to 1566.00 nm</b>	<b>1566.00 to 1610.00 nm</b>	<b>1525.00 to 1610.00 nm</b>
<i>Output Power</i>	<b><math>\geq 13</math> dBm</b>	<b><math>\geq 10</math> dBm</b>	<b><math>\geq 7</math> dBm</b>
<i>Wavelength resolution</i>	<b>1.0 pm</b>		
<i>Absolute wavelength accuracy</i>	<b><math>\pm 10</math> pm, typ. <math>&lt; 5</math> pm</b>		
<i>Relative wavelength accuracy</i>	<b><math>\pm 5</math> pm, Typ. <math>\pm 2</math> pm</b>		
<i>Wavelength repeatability</i>	<b><math>\pm 2</math> pm, typ. <math>\pm 1</math> pm</b>		
<i>Wavelength stability (typ., 24 hrs at constant temperature)</i>	<b><math>\leq \pm 2</math> pm</b>		
<i>Tuning speed</i>	<b><math>\leq 2</math> ms per step</b>		
<i>Power stability</i>	<b><math>\pm 0.05</math> dB, 1 hour. Typ., <math>\pm 0.1</math> dB, 24 hours.</b>		
<i>Power repeatability</i>	<b><math>\pm 0.05</math> dB</b>		
<i>Power linearity</i>	<b><math>\pm 0.3</math> dB</b>		
<i>Power flatness versus wavelength</i>	<b>0.3 dB typ., 0.5 dB max.</b>		
<i>Side-mode Suppression ratio</i>	<b><math>\geq 50</math> dBc</b>		
<i>Relative intensity noise(RIN. Typ.)</i>	<b><math>&lt; -135</math> dB</b>		
<i>Output optical interface</i>	<b>PM, FC/PC connector</b>		
<i>Dimensions</i>	<b>75 mm H, 32 mm W, 310 mm D [3.5" (L) x 8.5" (W) x 12.5" (H)]</b>		
<i>Weight</i>	<b>0.5 kg</b>		

Customers can contact with UC INSTRUMENTS customers services to get detail GM8001, GM8001B Lightwave Multimeter specification.

## 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

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