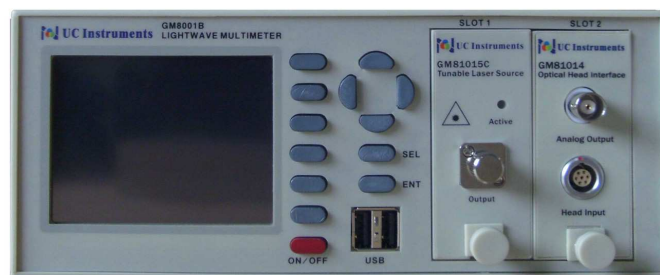


# UC INSTRUMENTS GM81022xx Tunable Laser Source Modules

Technical Specifications Ver 1.06  
Jan., 2011



# GM81022xx Tunable Laser Source Modules

The GM81022C, GM81022L and GM81022CL tunable laser modules offer superior performance in testing DWDM components, AWG & PLC components, optical amplifiers, and performing other general purpose of fiber optical test and measurement applications.

A GM8001B mainframe can host any two of the three tunable laser modules (i.e., GM81022C, GM81022L, GM81022CL), comprising a high accuracy, high power, compact dimension, fast startup, affordable tunable laser source system. This system provides C band, L band, or C+L band tunable laser sources options. UC Instruments can also provide high channel count solution up to 16 channels.

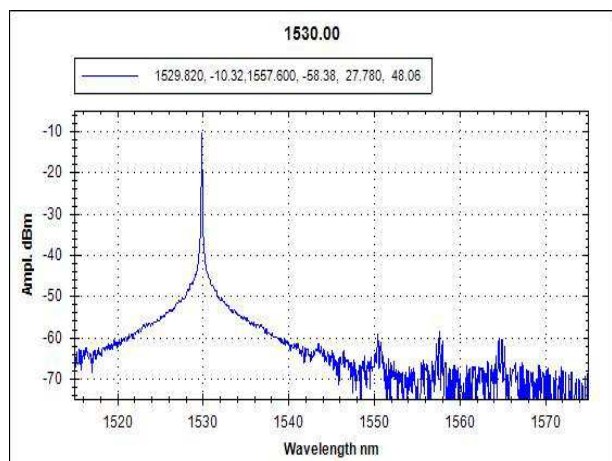
## Features

- High wavelength accuracy
- Continuous wavelength tunability
- High power laser source
- Rapid tuning speed
- Fast startup
- Compact size
- Competitive price

## Applications

- WDM, AWG, PLC Components tests
- PMD and PDL measurements
- Fiber grating sensors /sensor array developments
- Fiber optical, telecom R&D Lab tests

<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>	1525.00 to 1568.00 nm	1568.00 to 1610.00 nm	1525.00 to 1610.00 nm
<i>Output Power</i>	$\geq 13$ dBm	$\geq 10$ dBm	$\geq 7$ 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>	$\leq$ +/- 2 pm		
<i>Tuning speed</i>	$\leq 2$ 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>	$\geq 40$ dBc		
<i>Relative intensity noise (RIN. Typ.)</i>	< -135 dB		
<i>Output optical interface</i>	PM, FC/PC connector		
<i>Dimensions</i>	75 mm H, 32 mm W, 310 mm D		
<i>Weight</i>	0.5 kg		

Note: customers may contact UC INSTRUMENTS customer service to get more details on GM8001B Lightwave Multimeter specification.

# UC INSTRUMENTS' Test and Measurement Supports, Services and Assistance

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instrument solutions for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your specific applications and apply them successfully. Every instrument /system we sell has a global warranty. All of our instruments are with at least 12 months factory warranty.

## Our Promises

All of UC INSTRUMENTS' test and measurement instruments and systems meet their advertised performance and functionality. When you select a UC INSTRUMENTS' product, we can help your product operation with our decade experiences, and provide the basic measurement assistance for the use of special capabilities.

## Contact Information

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Product specifications and descriptions in this documentation subject to change without notice.

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