

UC INSTRUMENTS GM8042 Desktop Tunable Laser Source

Technical Specifications Ver 1.06
Nov, 2010



 UC INSTRUMENTS CORP.

GM8042 Desktop Tunable Laser Source

The GM8042 desktop tunable laser sources offer superior performance in testing DWDM components, AWG & PLC components, optical amplifiers, DWDM system and performing other general-purpose fiber optical test and measurement applications. It is a high wavelength accuracy, high power output, compact dimensions, fast startup, and affordable tunable laser source system. UC INSTRUMENTS provides C band, L band, or C+L band tunable laser sources options.

Features

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

Applications

- Field WDM, GFF, AWG, PLC and ATM system engineering in situ trouble shooting
- Fiber sensor/sensor array tests
- PMD and PDL measurements
- Fiber optical, telecom R&D lab tests
- Compact field testing system

Specifications

<i>Model</i>	<i>GM8042C</i>	<i>GM8042L</i>	<i>GM8042CL</i>
<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>	>= 20 mW	>= 10 mW	>= 5.0 mW
<i>Power Adjust Range</i>	25 dB	25 dB	25 dB
<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>	<= +/- 2 pm		
<i>Tuning speed</i>	<= 0.02 s per step		
<i>Power stability</i>	< +/- 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>	>= 40 dBc		
<i>Relative intensity noise (RIN. Typ.)</i>	< -135 dB		
<i>Power</i>	AC 100 - 240 V \pm 10%, 48 - 66 Hz, 100 VA max.		
<i>Environmental temperature</i>	-40° C to +80° C		
<i>Storage temperature</i>	0° C to +45° C		
<i>Operating temperature</i>	<95% R.H. from 0° C to +45° C		
<i>Humidity</i>			
<i>Working Environment</i>	-10° C to +70° C 0° C to +45° C <95% R.H. from 0° C to +45° C		
<i>Dimensions</i>	200x 105 x 250 mm		
<i>Weight</i>	9.0 lbs		

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

United States:

UC INSTRUMENTS CORP.

3652 Edison Way
Fremont, CA 94538
USA

Tel: 1-510-366-7353

Fax: 1-510-353-1809

www.ucinstruments.com

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

Copyright © 2008 UC INSTRUMENTS CORP.

May, 2008

31000046 V1.06