

UC INSTRUMENTS GM8011CVP TUNABLE LASER SOURCE SYSTEM

Technical Specifications v1.02
March, 2010
(Preliminary)



GM8011CVP Tunable Laser Source System

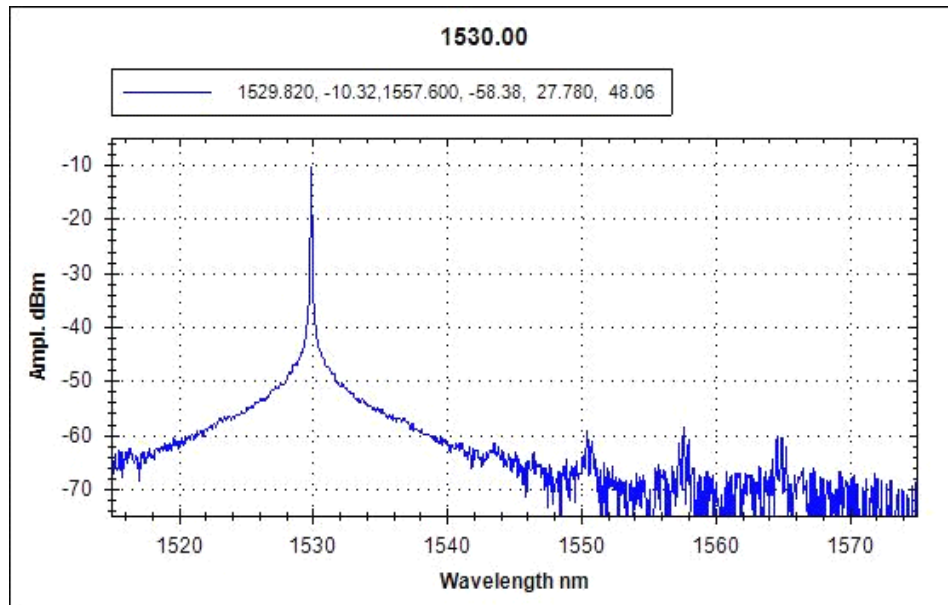
The GM8011C, GM8011CP and GM8011CVP tunable lasers system offer superior performance for the test of DWDM components, AWG & PLC components, optical amplifiers, DWDM system and other general purpose of fiber optical test and measurement applications. The system can internal integrated optical attenuator & power meter provides a high wavelength accuracy, quick scan function tunable laser source test system platform.

Features

- Wavelength quick scan
- High wavelength accuracy
- Quick startup
- High laser power output
- Internal Integrated Optical Attenuator & Power Meter option

Applications

- Production WDM, AWG, PLC, and ATM critical components and modules testing
- Fiber Sensor test
- PMD and PDL measurement
- Fiber Optical , Telcom R & D lab test
- Impact field testing system



Specifications

The UC INSTRUMENTS GM8011CVP Tunable Laser Source Systems Specification:

Model #	GM8011C	GM8011CP	GM8011CVP
Tunable Laser Source			
Wavelength range	1528.00 to 1568.00 nm		
Output Power	>= 20 mW		
Wavelength resolution	1.0 pm		
Absolute wavelength accuracy	+/- 10 pm, tpy. < 5 pm		
Relative wavelength accuracy	+/- 5 pm, Typ. +/- 2 pm		
Wavelength repeatability	+/- 3 pm, typ. +/- 1 pm		
Wavelength stability (typ., 24 hrs at constant temperature)	<= +/- 5 pm		
Tuning speed	<= 0.1 s per step		
Power stability	< +/- 0.1 dB, 24 hours.		
Power repeatability	+/- 0.05 dB		
Power linearity	+/- 0.3 dB		
Power fiatness versus wavelength	0.3 dB; typ., 0.05dB.		
Side-mode Suppression ritio	>= 40 dBc		
Relative intensity noise(RIN. Typ.)	< -135 dB		
Optical Attenuator			
Wavelength Range	N/A	N/A	1520.00 ~ 1620.00 nm
Insertion Loss (IL)			< 2.0 dB
Attenuation Range			0 ~ 30 dB
Attenuation Resolution			Continuous
Maximum Handling Power			300 mW
Response Time			< 50 ms
Power Meter			

<i>Wavelength Range</i>	<i>N/A</i>	<i>1520 nm to 1620 nm</i>	<i>1520 nm to 1620 nm</i>
<i>Power Measurement Range</i>		<i>+3 dBm to -70 dBm</i>	<i>+3 dBm to -70 dBm</i>
<i>Power Accuracy</i>		<i>< +/- 4%</i>	<i>< +/- 4%</i>
<i>Power repeatability</i>		<i>< 0.1 dB</i>	<i>< 0.1 dB</i>
<i>Power Adaptor Power</i>	<i>AC 100 - 240 V \pm 10%, 48 - 66 Hz, 100 VA max.</i>		
<i>Display</i>	<i>Graphical display 7" color touch screen</i>		
<i>Environmental</i>	<i>-40° C to +80° C</i> <i>0° C to +45° C</i> <i><95% R.H. from 0° C to +45° C</i>		
<i>Storage temperature</i>			
<i>Operating temperature</i>			
<i>Humidity</i>			
<i>Work Environmental</i>	<i>-10° C to +70° C</i> <i>0° C to +45° C</i> <i><95% R.H. from 0° C to +45° C</i>		
<i>Dimensions</i>	<i>Standard 3U Rack (19.0 in X 17.0 in X 6.0 in)</i>		
<i>Weight</i>	<i>10.0 lbs</i>		

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