UC INSTRUMENTS UC8110 Desktop Tunable Laser Source

Technical Specifications Ver 1.10 Nov, 2017





UC8110 Desktop Tunable Laser Source

The UC8110 desktop tunable lasers 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. It is a wavelength high accuracy, high power output, small dimension, fast startup, affordable tunable laser source system. UC INSTRUMENTS provides C band, L band, or C+L band tunable laser sources options.

Features

High wavelength accuracy
Quick startup
High power output
Internal Integrated Optical Attenuator

Applications

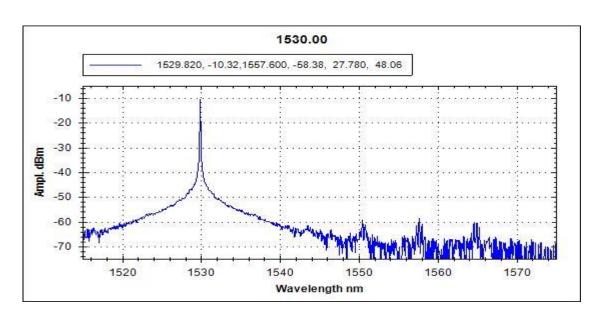
Field WDM, GFF, AWG, PLC, and ATM system engineering trouble shoot
Fiber sensors test
PMD and PDL measurement
Fiber optical, Telcom R & D lab test
Impact field testing system

Specifications

The UC INSTRUMENTS GM8042 Series Desktop Tunable Laser Source's Specification as below:

Option	UC8110C	UC8110L	UC8110CL	
Tunable Laser Source				
Wavelength range	1527.00 to 1568.00 nm	1568.00 to 1610.00 nm	1527.00 to 1610.00 nm	
Output Power	>= 12 dBm	>= 9 dBm	>= 5.0 dBm	
Power Adjust Range	25 dB	25 dB	25 dB	
Wavelength resolution	1.0 pm			
Absolute wavelength accuracy	+/- 10 pm, tpy. < 5 pm			
Relative wavelength accuracy	+/- 5 pm, Typ. +/- 2 pm			
Wavelength repeatability	+/- 2 pm, typ. +/- 1 pm			
Wavelength stability (typ., 24 hrs at constant temperature	<= +/- 2 pm			
Tuning speed	<= 0.02 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., 0.5 dB max.			
Side-mode Suppression ritio	>= 40 dBc			
Relative intensity noise(RIN. Typ.)	< -135 dB			
Power	AC 100 - 240 V \pm 10%, 48 - 66 Hz, 100 VA max.			
Environmental Storage temperature Operating temperature Humidity	-40° C to +80° C 0° C to +45° C <95% R.H. from 0° C to +45° C			
Work Environmental	-10° C to +70° C 0° C to +45° C <95% R.H. from 0° C to +45° C			
Dimensions	256 x 169 x 64 mm			
Weight		9.0 lbs		

Typical Laser Output Spectrum



Contact Information

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