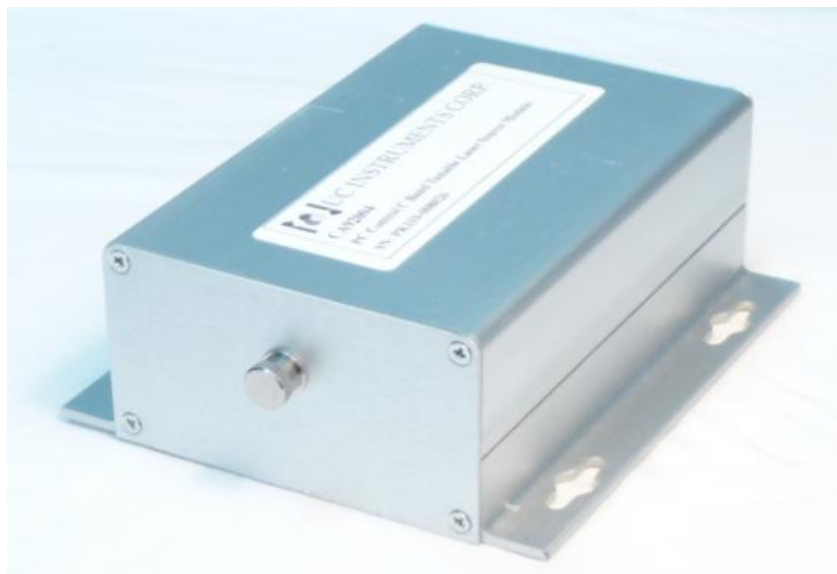


UC INSTRUMENTS CA92004 PC Control Tunable Laser Source Modules

Technical Specifications Ver 1.04
May, 2012



CA92004 Tunable Laser Source Module

The CA92004 tunable laser modules offer superior performance for the test of DWDM components, AWG, WSS, OPM components, optical amplifiers, and other general purpose of fiber optical test and measurement with high wavelength resolution applications.

Each of CA92004 tunable laser modules is connected to a PC with RS232 cable. It becomes a High Accuracy, High Power, Small Dimension, Fast Startup, Affordable Tunable Laser Source system. It provides C band tunable laser sources options. UC Instruments also provide modules control software. The module also can be integrated into customers' products system with RS232 interface control.

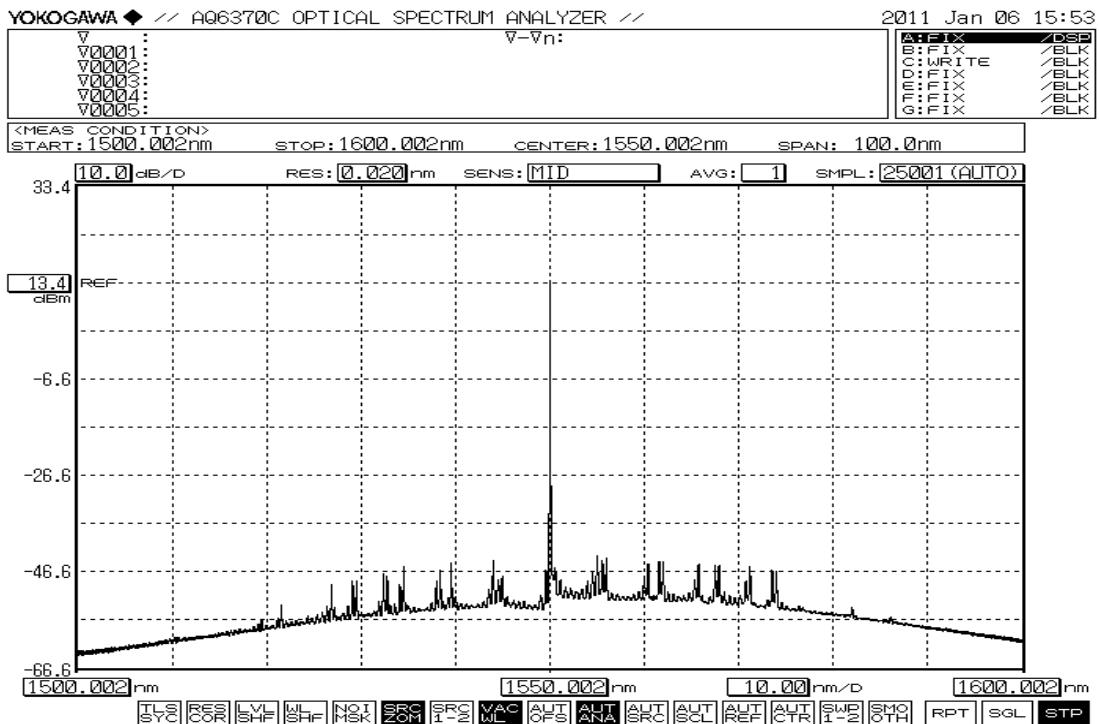
Features

- High wavelength accuracy: +/- 10 pm
- Quick startup: Less than 2 minutes;
- High output power: +13 dBm
- Small dimension:

Applications

- 50 GHz DWDM, WSS, OPM, AWG, Interleaver components test
- Fiber sensor test
- PMD and PDL measurement
- Fiber Optical, Telcom R & D lab test and system integration

Laser Output Spectrum:



Tunable Laser Source Spectrum

Specification:

Model #	CA82004
Wavelength range	1527.00 to 1567.00 nm
Output Power	$\geq +13$ dBm
Wavelength resolution	1.0 pm
Absolute wavelength accuracy	± 10 pm, typ. < 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)	$\leq \pm 2$ pm
Sweep speed	32 nm/s with 10 pm /step
Power stability	± 0.05 dB, 1 hour. Typ., ± 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
Output optical interface	PM, FC/PC connector
Interface	RS232
Power	3.3 V; 3 A
Dimensions	133mm x 120mm x 51mm
Weight	0.5 kg

Computer Interface:

CA92004 Tunable Laser Source

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Com Port: COM5 Baud Rate: 115200 [Open] [Close] [Update]

Frequency (GHz)
 192174.6 [Set Value]
 Min: 191316.0 [Set to Min]
 Max: 196328.0 [Set to Max]

Wavelength (nm)
 1560.000 [Set Value]
 Min: 1526.999 [Set to Min]
 Max: 1567.001 [Set to Max]

Frequency Sweep (GHz)
 191316.0 to 196328.0 step 1.0

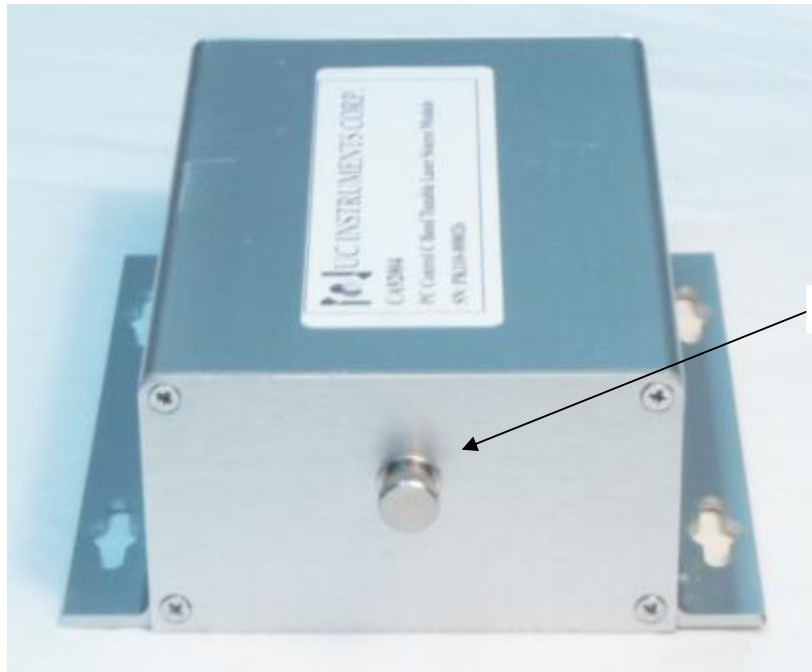
Wavelength Sweep (nm)
 1527.000 to 1567.000 step 0.010

Sweep Mode: Frequenc [Single Sweep]
 Sweep Time (ms): 9950 [Continuous]
 Step Dwell (ms): 2 [Abort]

Power: 13.0 Unit: dBm Laser Status: ■ On ○ Off

CA92004 CY13211155 V2.11

Module Outlook



FC/UPC Output

Front Panel



USB Port

Power Adaptor

Trig 1

Trig 2

Back Panel

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.

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