

High Accuracy, High Power, Fast Startup, Compact Tunable Laser Source Modules

July, 2008



*C band, L band,
C + L band
available*



***TLS-A0-81618X**
Serials RS232 Port
Control Tunable
Laser Source
Module*



www.ucinstruments.com

The TLS-A0-81618C, TLS-A0-81618L, TLS-A0-81618CL tunable laser modules offer computer control superior performance for the test of DWDM components, AWG & PLC components, optical amplifiers, and other general purpose of fiber optical test and measurement applications.

Features

*High wavelength accuracy
Quick startup
High power
Small dimension
Affordable price*

Applications

*WDM, AWG, PLC components test
Fiber Sensor test
PMD and PDL measurement
Fiber Optical , Telcom R & D lab test*

TLS-A0-81618C, TLS-A0-81618L, TLS-A0-81618CL Laser Modules Specification

| <i>Model #</i> | <i>TLS-A0-81618C</i> | <i>TLS-A0-81618L</i> | <i>TLS-A0-81618CL</i> |
|---|--|-------------------------------------|-------------------------------------|
| <i>Wavelength range</i> | <i>1528.00 to 1568.00 nm</i> | <i>1568.00 to 1610.00 nm</i> | <i>1528.00 to 1610.00 nm</i> |
| <i>Output Power</i> | <i>>= 20 mW</i> | <i>>= 20 mW</i> | <i>>= 10 mW</i> |
| <i>Wavelength resolution</i> | <i>0.1 pm</i> | | |
| <i>Absolute wavelength accuracy</i> | <i>+/- 10 pm, tpy. < 5 pm</i> | | |
| <i>Relative wavelength accuracy</i> | <i>+/- 5 pm, Typ. +/- 2 pm</i> | | |
| <i>Wavelength repeatability</i> | <i>+/- 1 pm, typ. +/- 0.5 pm</i> | | |
| <i>Wavelength stability (typ., 24 hrs at constant temperature)</i> | <i><= +/- 1 pm</i> | | |
| <i>Tuning speed</i> | <i><= 5 s per step</i> | | |
| <i>Power stability</i> | <i>+/- 0.01 dB, 1 hour. Typ., +/- 0.03 dB, 24 hours.</i> | | |
| <i>Power repeatability</i> | <i>+/- 0.01 dB</i> | | |
| <i>Power linearity</i> | <i>+/- 0.3 dB</i> | | |
| <i>Power fiatness versus wavelength</i> | <i>0.3 dB typ., 0.5 dB max.</i> | | |
| <i>Side-mode Suppression ritio</i> | <i>>= 40 dBc</i> | | |
| <i>Relative intensity noise(RIN. Typ.)</i> | <i>< -135 dB</i> | | |
| <i>Output optical interface</i> | <i>PM, FC/PC connector</i> | | |
| <i>Dimensions</i> | <i>75 mm H, 32 mm W, 310 mm D [3.5" (L) x 8.5" (W) x 12.5" (H)]</i> | | |
| <i>Weight</i> | <i>0.5 kg</i> | | |

TLS-A0-81618C, TLS-A0-81618L, TLS-A0-81618CL will be controlled via computer through the build in RS232 communication port. UC Instruments will provide the modules driver software to complete the wavelength tuning operation.

Ordering Information

| <i>Ordering number</i> | <i>Instrument</i> |
|-------------------------------|--|
| <i>GM 1002/01</i> | <i>TLS-A0-81618C C Band Tunable Laser Module</i> |
| <i>GM 1002/02</i> | <i>TLS-A0-81618CL L Band Tunable Laser Module</i> |
| <i>GM 1002/03</i> | <i>TLS-A0-81618C L C and L Band Tunable Laser Module</i> |
| <i>GM 1002/04</i> | <i>TLS-A0-81618X Tunable Laser Module Driver</i> |

| <i>Ordering number</i> | <i>Accessories</i> |
|-------------------------------|--|
| <i>FW 1000/00.32</i> | <i>Optical adapter ST type</i> |
| <i>FW 1000/00.58</i> | <i>Optical adapter SC type</i> |
| <i>FW 1000/00.51</i> | <i>Optical adapter FC type</i> |
| <i>FW 1000/00.50</i> | <i>Optical adapter DIN type</i> |
| <i>FW 1000/00.59</i> | <i>Optical adapter LC type</i> |
| <i>FW 1001/00.01</i> | <i>5 dB FC/FC Fix Adaptor Attenuator</i> |
| <i>FW 1001/00.02</i> | <i>10 dB FC/FC Fix Adaptor Attenuator</i> |
| <i>FW 1001/00.03</i> | <i>20 dB FC/FC Fix Adaptor Attenuator</i> |
| <i>SS 1003/00.01</i> | <i>FC/FC 30 dB Pigtail Adjustable Attenuator</i> |

Customer Special Order

We also provide 10 mw, 30 mw out put power C band, L band tunable laser special order. Please feel free to contact UC Instruments Corp. for other test equipment products you specify.



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