

TLS1005CL 台式可调谐激光光源

TLS1005CL Desk - type Tunable Laser Light Source

产 品 规 范

Specification



概述 DESCRIPTIONS

TLS1005CL 台式可调谐激光光源模块主要用于高精密度波分复用 DWDM 元件、光波导光栅阵列 AWG 元件、平面光波导 PLC 元件、光放大器 EDFA、DWDM 系统以及其它通用的光纤的光学测量和应用。TLS1005CL 可调谐激光光源系统具有波长精度高，输出功率大、尺寸小巧、启动快速、价格实惠等特点。OPEAKTECH 公司可提供 C 波段，L 波段，C+L 波段的 TLS1005CL 台式可调谐激光光源模块供选择。

The TLS1005CL desktop Tunable Laser offer superior performance for the testing of DWDM components, AWG & PLC components, optical amplifiers, DWDM system and other general purpose fiber optic test and measurement applications. It has a wavelength high accuracy, high power output, small dimensions, fast startup, and is an affordable Tunable Laser Source system. The system comes with C band, L band, or C + L band options.



FEATURES 产品特点

1. High Wavelength Accuracy /波长精度高
2. High Output Power /输出功率大
3. Fast Start-up /启动时间短
4. Small Dimension /整体尺寸小
5. USB digital keyboard /USB 数字键盘

APPLICATION 应用范围

- 1、CWDM,DWDM, Filter, Components, Module, System Testing /CWDM, DWDM 滤光片，元件，模块和系统测量
- 2、OPM, Interleaver, DPSK,WSS ,PLC, AWG components, modules testing /OPM, Interleaver, DPSK, WSS, PLC, AWG 元件和模块测量
- 3、Fiber Grating Sensors Sweep Testing /光纤传感器扫描测量
- 4、Fiber Optic Test Equipments Inspection and Testing /光纤测量仪器的检验和测量
- 5、Laser Sweep Optical Spectrum Analyze /激光扫描光谱分析
- 6、R&D and Lab Application /R&D 和实验室应用
- 7、Optical Coating Application /光学镀膜应用

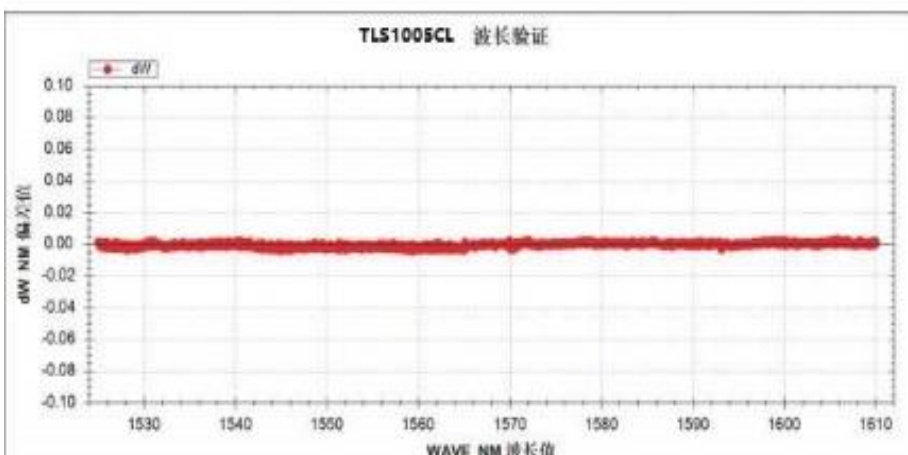
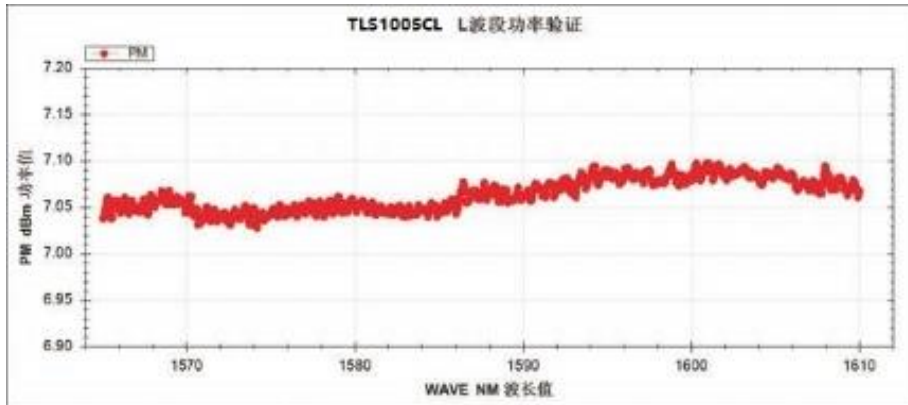
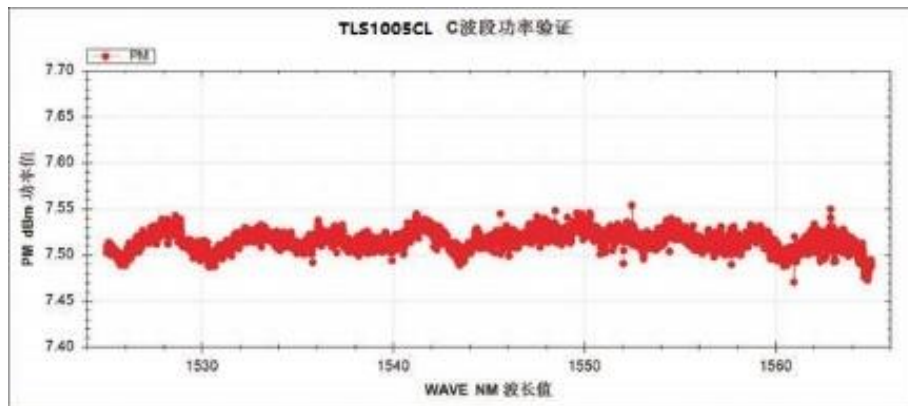
性能指标 SPECIFICATIONS

型号 Model #	TLS1005CL		
选项 Option	C-band	L-Band	C+L Band
波长范围 Wavelength range	1525.00 to 1566.00 nm	1566.00 to 1610.00 nm	1525.00 to 1610.00 nm
输出功率 Output Power	>= 10 mW	>= 10 mW	>= 5.0 mW
波长分辨率 Wavelength resolution	1.0 pm		
绝对波长精度 Absolute wavelength Accuracy	+/- 10 pm, tpy, < 5 pm		
相对波长精度 Relative wavelength accuracy	+/- 5 pm, Typ, +/- 2 pm		
波长重复性 Wavelength repeatability	+/- 2 pm, typ. +/- 1 pm		
波长稳定性 Wavelength stability	<= +/- 2 pm (恒温 24 小时下, 24 hrs at constant temperature)		
调谐速度 Tuning speed	<= 0.02 s per step		
功率稳定性 Power stability	< +/- 0.1 dB, 24 hours.		
功率重复性 Power repeatability	+/- 0.05 dB		
功率线性度 Power linearity	+/- 0.3 dB		
功率波长平整度 Power flatness versus wavelength	0.3 dB typ., 0.5 dB max.		
边模抑制比 Side-mode Suppression ratio	>= 40 dB		
相对噪声强度 Relative intensity noise	< -135 dB		
电源功率 Power	AC 100 - 240 V ± 10%, 48 - 66 Hz, 2A max.		
存储温度 Storage temperature	-40°C to +80°C		
工作温度 Operating temperature	0° C to +45° C		
外形尺寸 Dimensions	200 mm W, 105 mm H, 250 mm D		
重量 Weight	3kg		

测试报告 Test Report

Testing Equipment Used:

Model Number	Model Description	Serial Number
Agilent 8164A	Lightwave Measurement System	DE40704339
Agilent 81625A	Optical Head	DE38200519
Agilent 81619A	Interface	DE38700451
HP86120C	Multi-Wavelength Meter	US38400315
UT2025B	Oscilloscope	SB203



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