

TLS2005 全波段（700-1700nm） 台式可调谐激光光源

TLS2005 Full Band（700-1700nm） Desk - type Tunable
Laser Light Source

产品规范 Specification



一、概述 DESCRIPTIONS

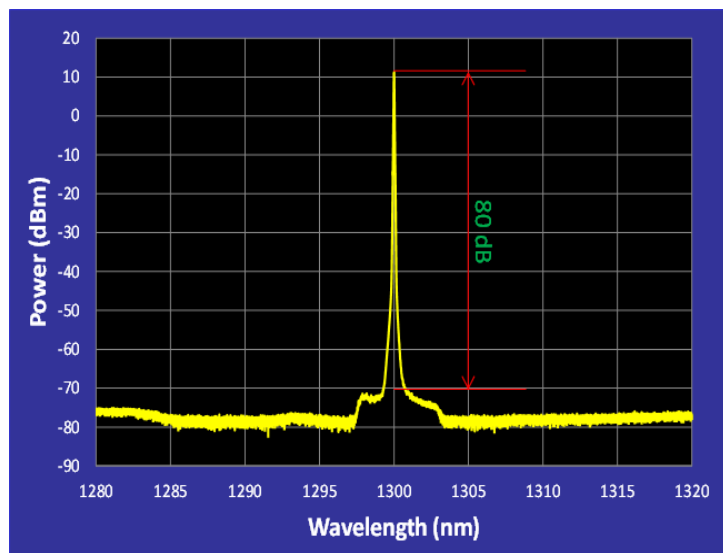
TLS2005

全波段（700-1700nm）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。TLS2005 全波段（700-1700nm）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、启动快速等特点。我公司可提供全波段（700-1700nm）范围内，波长范围可选的 TLS2005 台式可调谐激光光源。

The TLS2005 FULL BAND 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 full band（700-1700nm）options.

FEATURES 产品特点

1. ASE Suppression Ratio
> 80 dB 高信噪比
2. High Wavelength Accuracy
波长精度高
3. High Output Power
输出功率大
4. Power stability:
 $\leq \pm 0.1\%$ (0.004 dB)
输出功率高稳定性
5. Fast Start-up
启动时间短
6. Small Dimension
整体尺寸小



APPLICATION 应用范围

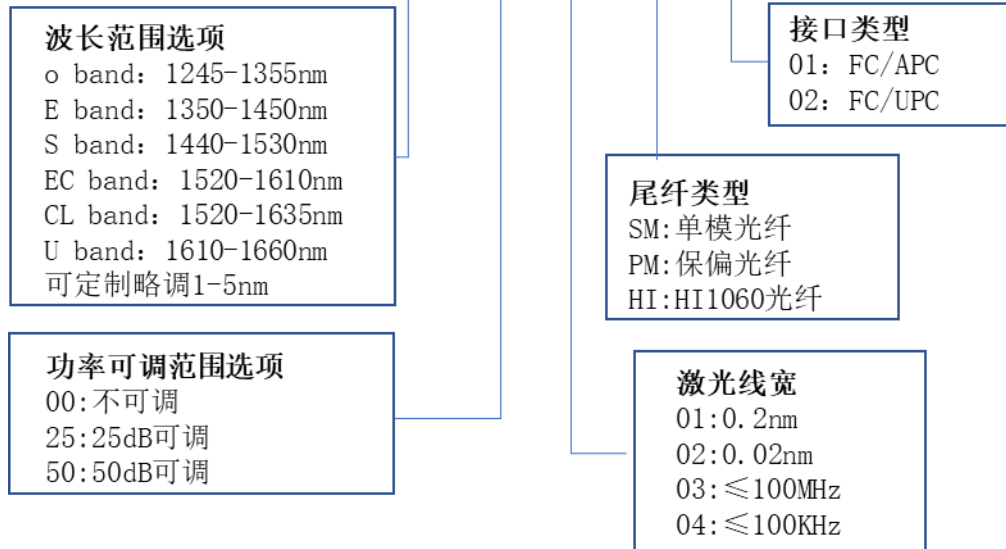
- 1、CWDM, DWDM, Filter, Components, Module, System Testing /CWDM, DWDM 滤光片，元件，模块和系统测量
- 2、OPM, Interleaver, DPSK, WSS, PLC, AWG components, modules testing /OPM, Interleaver, DPSK, WSS, PLC, AWG 元件和模块测量
- 3、Fiber Grating Sensors Sweep Testing /光纤传感器扫描测量
- 4、Fiber Optic Test Equipments Inspection and 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（线宽宽达 0.2nm 消除干涉）

二、性能指标 SPECIFICATIONS

| 型号 Model # | TLS2005 FULL BAND (特殊波长 700-1250nm 不适用此指标) | | | | | |
|--|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 选项 Option | O-band | E-Band | S-Band | EC-Band | CL- Band | U-Band |
| 常规波长范围 nm Wavelength range | 1245.00 1355.00 | 1350.00 1450.00 | 1440.00 1530.00 | 1520.00 1610.00 | 1520.00 1635.00 | 1610.00 1660.00 |
| 最小输出功率 Mini Output Power | >= 2mw (边缘波长) Typ>10mw | | | | | |
| 波长分辨率 Wavelength resolution | 1.0 pm | | | | | |
| 绝对波长精度 Absolute wavelength Accuracy | +/- 10pm, tpy, < 10pm | | | | | |
| 相对波长精度 Relative wavelength accuracy | +/- 10pm, Typ, +/- 5 pm | | | | | |
| 波长重复性 Wavelength repeatability | +/- 5pm, typ. +/- 3pm | | | | | |
| 波长稳定性 Wavelength stability | <= +/- 20pm (恒温 24 小时下, 24 hrs at constant temperature) | | | | | |
| 调谐速度 Tuning speed | <= 0.2 s per step | | | | | |
| 功率可调范围 Power regulation range | 00: 功率不可调; 25: 0-25dB; 50: 0-50dB | | | | | |
| 功率稳定性 Power stability | < +/- 0.01 dB, 24 hours. | | | | | |
| 功率重复性 Power repeatability | +/- 0.01 dB | | | | | |
| 功率线性度 (带衰减器) Power linearity (with VOA) | +/- 0.3 dB | | | | | |
| 功率波长平整度 (带衰减器) Power flatness versus wavelength (with VOA) | typ0.1dB, 0.3dB max. | | | | | |
| 激光线宽 Linewidth (FWHM) | 01-0.2nm (宽线宽); 02-0.02nm; 03-≤100MHz; 0.4-≤100KHz | | | | | |
| 光信噪比 (OSNR) | >= 65 dB | | | | | |
| 相对噪声强度 Relative intensity noise | < -135 dB | | | | | |
| 输出光纤 Optical Fiber | SM:单模 SM 输出; PM: PM 输出; HI: HI1060 输出; | | | | | |
| 接口类型 Optical Connector | FC/APC; FC/UPC | | | | | |
| 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 | | | | | |

三、订购信息 Order information

TLS2005-XX-XX-XX-XX-XX



EX: TLS2005CL-25-03-SM-FC/APC 为1500 to 1635nm 功率可调范围25dB, 线宽为小于等于100MHz,FC/APC单模光纤输出。

备注: 特殊波段700-1250nm技术指标请咨询相关销售 sales@exdbm.com

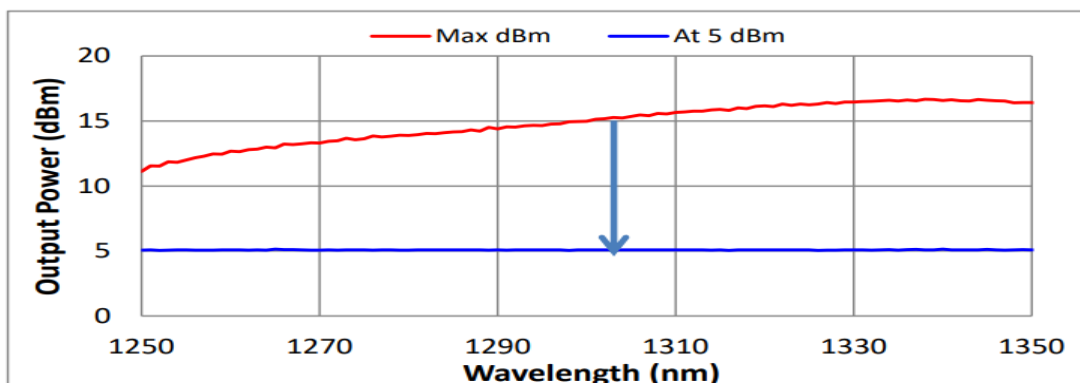
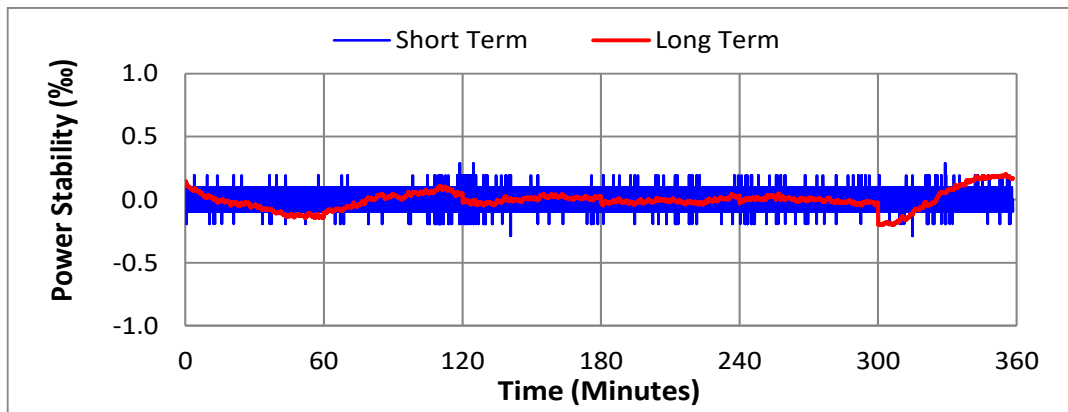
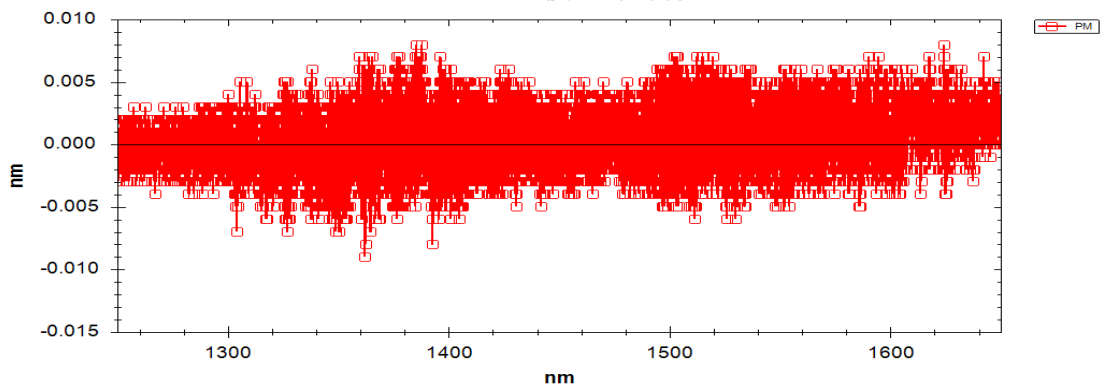
| 选项 Option | 780-band | 850-Band | 930-Band | 980- Band | 1064-band | 1150-Band | 1200-Band |
|------------------|------------|-------------|------------|-----------|-----------|-----------|-----------|
| 波长范围 nm | 760-810 or | 810.-860 or | 890-980 or | 920-1020 | 1000-1100 | 1100-1180 | 1160-1250 |
| Wavelength range | 760-795 | 840-890 | 905-970 | | | | |

四、测试报告 Test Report

测试使用设备 Testing Equipment Used:

| 型号 Model Number | 描述 Description | Serial Number |
|-----------------|----------------|---------------|
| Agilent 8163B | 功率计 | DE42102180 |
| Agilent 81619A | 模块 | DE41202176 |
| Agilent 81624A | 探头 | DE41100864 |
| Agilent 81626B | 探头 | DE41100719 |
| Agilent 81571A | 探头 | MY43701526 |
| HP86120B | 波长计 | US38461481 |
| PM10:90 分光器 | 分光器 | 80021702 |

1250-1650波长准确性



五、技术支持和服务 Test and Measurement Supports, Services and Assistance

我公司为我们的客户提供了高性能、高品质、低价位的测量仪器及测试系统。我们强大的技术资源可以帮助您选择并正确使用本公司合适的产品以满足您的应用需求。我们销售的每种仪器都拥有全球保修服务，提供最少12个月的出厂保修期。

Our company provides high performance, high value, low cost, affordable test and measurement instrument solutions for our customers. Our extensive support sources can help you choose right Our products for your specific applications and apply them successfully. Every instrument system we sell has a global warranty. All of our instruments are with at least 12 months factory warranty.

六、我们的承诺 Our Promises

我公司所有的测量仪器和测试系统均符合其资料所描述的功能和性能指标。一旦您选择了我公司产品，我们将为您提供合格的产品以及产品操作使用方法。对于有特殊功能的使用，我们会提供基本的测量帮助。

Our company' all test and measurement instruments and systems meet their advertised performance and functionality. When you select our product, we can help your product operation with our decade experiences, and provide the basic measurement assistance for the use of special capabilities.

七、联系信息 Contact Information

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