

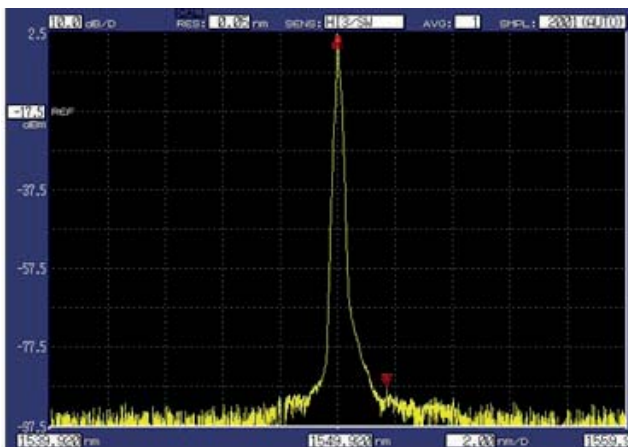
# TLS5 | Tunable Laser Source



## Product Description

JGR's TLS5 delivers an ultra-wide continuous wavelength range covering the complete CWDM spectral range from 1260 nm to 1650 nm at a resolution of 0.1 nm. The TLS5 features a high Side Mode Suppression Ratio (SMSR) of over 60dB, low coherence length and high repeatability, making this source perfect for the characterization of CWDM, PON, various optical components, and for general lab uses.

The output power of the TLS5 is typically between -5 dBm to + 5 dBm.



## KEY FEATURES

- Ultra wide 1260 nm to 1650 nm continuous wavelength range
- Resolution of 0.1 nm
- Side Mode Suppression Ratio 60 dB at 0.1 nm resolution bandwidth

## APPLICATIONS

- CWDM and PON component testing
- General lab use
- Test and measurement

## COMPLIANCE

- UL/CSA 61010
- IEC 61010
- FCC Part 15 (Class A)
- EN 61326 (Class A)

## IN THE BOX

- TLS5 Tunable Laser Source
- Hybrid jumper
- AC power cord

## JGR Optics Inc.

160 Michael Cowpland Dr.  
Ottawa, Ontario K2M 1P6 CANADA

5 | T 613-599-1000 | F 613-599-1099 | info@jgroptics.com

WWW.JGROPTICS.COM



## Specifications

OPTICAL / ELECTRICAL SPECIFICATIONS		
Parameter	Specification	
	CL	W
Wavelength Range (nm)	1520-1650	1260-1650
Power Stability (dB) <sup>1</sup>	±0.01	±0.07
FWHM (nm)	0.1	
Power Repeatability (dB) <sup>2</sup>	± 0.02	± 0.02
Output Power (dBm)	-5 to +5	
SMSR @ 0.1nm BW (dB)	>60	
Wavelength Stability (pm) <sup>3</sup>	±8	
Wavelength Accuracy (pm)	±50	
Wavelength Repeatability (pm)	±50	
Resolution (nm)	0.1	
Tuning Speed (nm/s) <sup>4</sup>	25	
High Frequency Modulation (kHz)	75	
Output Type	Panda PM fiber	
Output Connector	FC / APC	
PER, PM output (dB)	18	
Communication Interfaces <sup>5</sup>	RS-232C, GPIB (IEEE-488.1) and BNC	
Laser Safety Classification	Class 3R	

**Notes:**

<sup>1</sup> Over 15 minutes

<sup>2</sup> At constant temperature, over 100 sweeps

<sup>3</sup> Over 1 h at constant temperature

<sup>4</sup> 100 nm/s available

<sup>5</sup> BNC for modulated Trig IN/OUT

## Ordering Scheme

TLS5 -  -FA

BAND	
CL	1520-1630
W	1260-1630