

### Ordering Scheme

TLS5 -  -FA

BAND	
CL	1520-1650
W	1260-1650
O	1260-1360
E	1360-1460
S	1460-1520

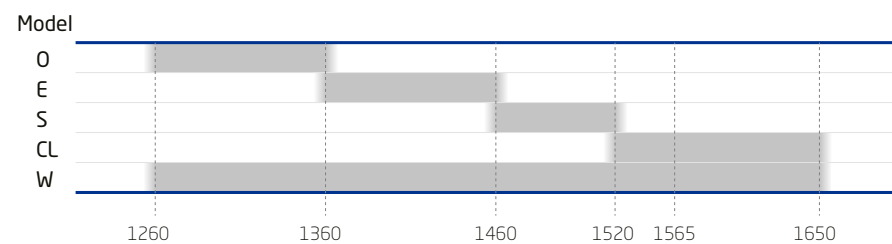


### Product Description

The TLS5 Tunable Laser Source delivers an ultra-wide continuous wavelength range covering the complete CWDM spectral range from 1260 nm to 1650 nm. The TLS5 features key characteristics such as a resolution of 0.1nm, high Side Mode Suppression Ratio (SMSR) of over 60dB, low coherence length, and high repeatability. These features make it the perfect source for the characterization of CWDM, PON, various optical components, and for general lab use.

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

### Wavelength Range (nm)



### KEY FEATURES

- Ultra wide 1260 nm to 1650 nm continuous wavelength range
- Resolution of 0.1 nm
- Side Mode Suppression Ratio (SMSR) of over 60dB 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

### Optical/Electrical Specifications

Parameter	Specification				
	O	E	S	CL	W
Wavelength Range (nm)	1260-1360	1360-1460	1460-1520	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				
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				
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

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

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

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

### Mechanical/Environmental Specifications

Parameter	Specification
Unit Dimensions W x H x D (cm)	36 x 15 x 34
Shipping Box Dimensions W x H x D (cm)	43 x 27 x 47
Unit Weight (kg)	10
Total Shipment Weight (kg)	11
Operating Temperature (°C)	0 to 40
Storage Temperature (°C)	-40 to 60
Humidity (Non-condensing)	Maximum 95% RH from 0 to 40 °C