



WLTL-100-E Tunable Fiber Laser Module

WLTL-100-E- series tunable fiber laser module is built on proprietary design, which is consisting mainly of a gain block, a frequency selection engine and an electric control board. Each of the elements is configurable to specific requirements. Such a versatile fixture leaves abundant options to implement variations of tuning range, wavelength resolution, output power and linewidth. The module provides X-band, O-band, C-band, L-band and S+C+L band tunable laser source options. It can be connected to a PC through a USB interface, comprising a fast setup, small foot print, low cost, fast sweep, high power tunable laser source system, which offers high performance in testing CWDM and DWDM components, AWG & PLC components and optical amplifiers and interrogating FBG fiber sensors.



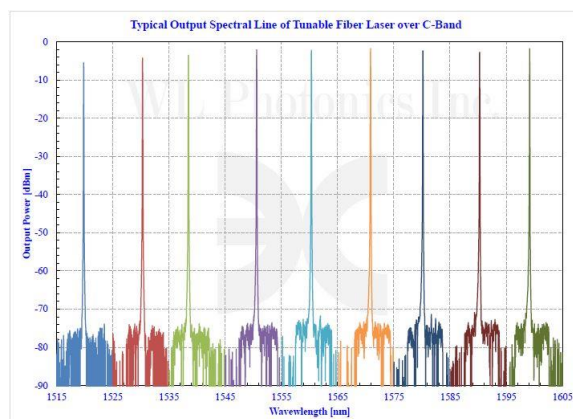
Tunable Fiber Laser Module

Key Features

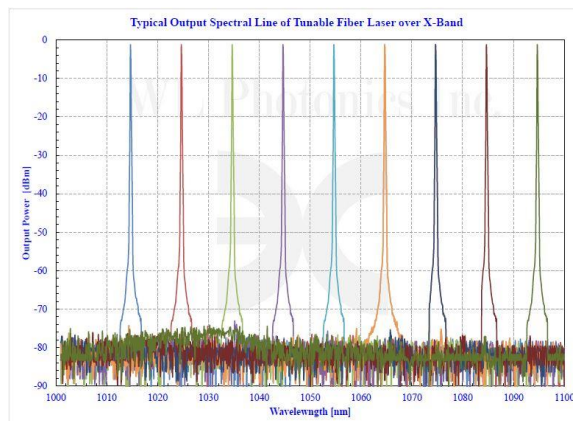
- Wide continues tuning range
- Available over X, O, S, C & bands
- Low ASE-noise level
- Rapid tuning speed
- Fast setup

Applications

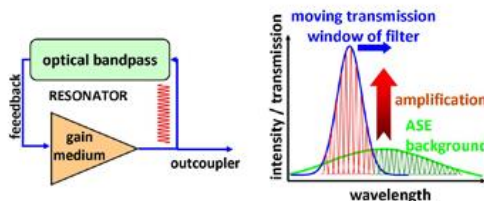
- Fiber optic components tests
- FBG fiber sensor interrogation system
- Fiber sensor/sensor array developments
- PMD and PDL measurements
- General R&D tests and system integrations.
- Seed option for high power fiber lasers.



C-Band Tunable Fiber Laser



X-Band Tunable Fiber Laser



Operating Principle of Tunable Fiber laser



Typical Specifications

Spectral band	X-Band	O-Band	C-Band
Wavelength range	1060±40nm	1310±50nm	1550±50nm
Output power	0 to 10dBm		
Wavelength resolution	0.01nm		
Wavelength repeatability	±0.02nm		
Tuning speed	100nm/Sec.		
Longitudinal mode feature	Multiple		
Output polarization ¹	Depolarized		
Spectral linewidth	<0.02nm		
Signal to source spontaneous-emission ratio	>80dB		
Power stability (typical)	±0.02dB/hr and ±0.05dB/24hrs		
Optical interface	Receptacle or pigtail output for various connectors on termination		
Optical fiber ²	HI1060	SMF-28 fiber	
Electric interface	USB (standard), I ² C and SPI (option)		
Power supply for gain block	5V/3A		
Operating temperature	0 to 50°C		
Storage temperature	-10 to 65 ⁰		
Dimension	40mm (H)x125mm (W)x165mm (L)		
Weight	0.75kg		
Other	RoHs compliant		
Notes	¹ Polarized output also available on request ² PM Fiber is available on request, Panda PM fiber aligned in slow axis.		

Ordering Information

Part Number: **WLTL-100-E-**ABCDE

- A. Spectral band: 1060 is for X-band filter and 1550 is C-band filter.
- B. Fiber type: SM is for single mode fiber and PM is for polarization maintaining fiber.
- C. Pigtail cable diameter in millimeter: 0.25 is for 250µm OD buffer fiber, 0.9 is for 900µm OD loose tube and 3.0 is for 3.0mm OD cable (only existing for pigtail version).
- D. Pigtail length in meter: 0.5 is for 0.5m long and 1.0 is for 1M long (only existing for pigtail version).
- E. Connector type of either pigtail termination or receptacle adapter, such as FC/APC, FC/UPC SC/APC or LU/UPC and 00 is for no connector