

MAP Tunable Laser

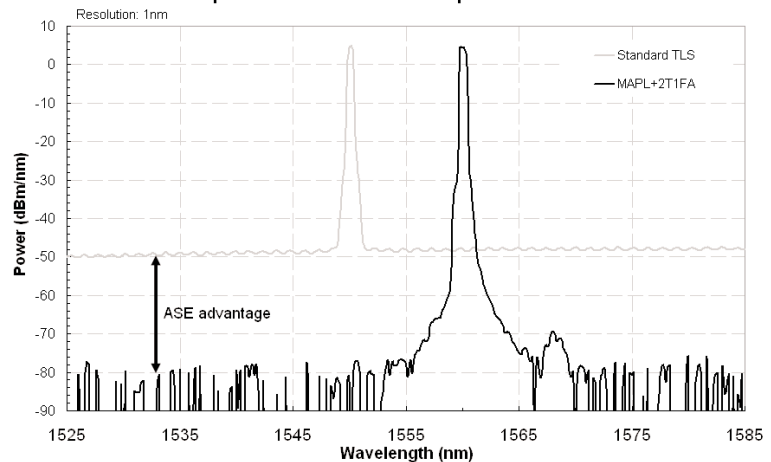


For stand-alone applications, the MAP Tunable Laser may be used as a benchtop

Key Features

- Low ASE
- > 110 nm of tunable range over C+L-band
- + 8 dBm peak output power
- Polarization maintaining fiber (PMF) output
- Tuning speed up to 100nm/s
- Mode-hop-free

Laser Spectrum of MAPL+2T1FA compared to standard TLS



Applications

- Dense wavelength division multiplexing (DWDM) transmission testing
- Optical amplifier testing
- Fiber characterization
- Transmitter and receiver testing

Safety Information

This optical source cassette, when installed in the MAP chassis, complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No.1010.1, meets the requirements of Class 3B in standard IEC 60825-1 (2002), and complies with 21 CFR 1040.1 except deviations per Laser Notice No.50, July 2001.

The Multiple Application Platform (MAP) Tunable Laser Cassette is a low ASE external cavity tunable diode laser that offers exceptional speed, accuracy and flexibility at a competitive price, making it the ideal source for advanced fiberoptic systems and component testing.

The wide wavelength range enables testing over the entire C+L-band range with a single source, while its high speed, mode-hop-free sweeping not only reduces testing time, but permits process testing and alignment of components during manufacturing.

As with all MAP cassettes, it may be seamlessly integrated with the extensive family of MAP cassettes, which enables complete custom solutions to be rapidly assembled and expanded as needed.

INVISIBLE LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT
(IEC 60825-1, 2002)
MAX. 500 mw, 700-1680 nm

Specifications

Parameter	Specification
Wavelength	
Range	1519 to 1630 nm, C+L-band
Accuracy ^{1,2,3}	± 15 pm enhanced accuracy mode ⁴ , ± 60 pm regular mode
Stability ^{1,2}	± 3 pm (typical) (1 hour), ± 10 pm (24 hours)
Repeatability ^{1,2}	± 3 pm (typical) enhanced accuracy mode ⁴
Resolution ^{1,2}	1 pm
Tuning speed	1 to 100 nm/s
Power	
Maximum power	
Over wavelength range	+ 5.0 dBm (> 6.0 dBm typical)
Peak	+ 8.0 dBm
Stability ^{1,2}	0.01 dB (1 hour)
Resolution	0.001 dB
Flatness while scanning ⁴	0.6 dB over wavelength range
Flatness while stepping	± 0.05dB
Spectral properties	
Line width, coherence control off	< 150 kHz
Side mode suppression ratio (SMSR)	45 dB
Signal to ASE ratio	See spectral plot
Relative intensity noise (RIN)	- 140 dB/Hz
Fiber/connector type	Polarization maintaining fiber (PMF)/APC connector
Fiber extinction ratio	> 20 dB
Recommended calibration period	1 year
Operating temperature	15 to 35 °C
Storage temperature	- 20 to 50 °C
Dimensions (W x H x D)	8.12 x 13.24 x 39.5 cm
Weight	3.8 kg

1. Measured at 25°C ±1 °C.

2. After 1 hour warm-up.

3. Valid for one month after calibration or user wavelength offset setting within ±4 °C.

4. Fixed power of 3 dBm.

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at sales@jdsu.com.

Please use the part number below to order the MAP Tunable Laser.

MAPL+2T1FA

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