

OSICS TLS-AG

Low Linewidth WDM Tunable Laser Source

The OSICS TLS-AG modules are tunable laser sources with high output power and low linewidth thanks to external cavity design. The wavelength can be tuned to any wavelength in C or L band.

With more than +13 dBm (20 mW) output power, plus high power and wavelength stability, this is the ideal laser for coherent WDM transmission testing.

Specifications

	Wide C-band	Wide L-band
Grid Selection	Adjustable to any wavelength grid (ITU-T 100 GHz, 50 GHz and arbitrary grid)	
Frequency/ Wavelength Range	196.275–191.125 THz 1527.41–1568.57 nm	191.100–186.200 THz 1568.77–1610.06 nm
Output Power	20 mW (+13 dBm)	
Power Range (typ.)	+6 to +13.5 dBm	
Relative Frequency (Wavelength) Accuracy (typ.)	±0.5 GHz (±4 pm)	
Absolute Frequency (Wavelength) Accuracy (typ.) ^{*1}	±1.5 GHz (±12 pm)	
Frequency Setting Resolution ^{*2}	Down to 1 MHz	
Tuning Speed ^{*3}	20 s (typ. between two channels)	
Power Stability ^{*2}	±0.03 dB	
Absolute Output Power Deviation Across Tuning Range	±0.2 dB	
Instantaneous Linewidth (FWHM)	< 100 kHz	
SBS Suppression Ability ^{*4}	Yes	
Side Mode Suppression Ratio	50 dB (typ.)	
SSER (typ.) ^{*5}	60 dB	
RIN ^{*6}	< -150 dB/Hz	
Operating Temperature Range	+15 to +35 °C (+59 to +95 °F)	
Optical Interface	FC/APC connector on PMF PER > 20 dB	
Control interface	Status LED, laser on/off button	
Dimensions (WxHxD) & Weight	35 x 130 x 250 mm (single slot), 1 kg	
Laser Safety	Class 1 M	

*1: ±2.5 GHz (±22 pm) end of life.

*2: At a constant temperature.

*3: 30 s max, including power stabilization

*4: At a dither frequency of 20.8 kHz and a FM p-p modulation width from 0 to 1000 MHz.

*5: Integrated over a 0.1 nm band.

*6: RIN within the range 100 MHz–20 GHz measured at 10 dBm output power with RBW = 30 kHz



Key Features

- **SBS suppression**
- **Turn on and off the laser in one click**
- **Selection of pre-configured channel or any wavelength in the covered wavelength range**
- **High power: +13 dBm**
Ideal for optical amplifier testing or WDM test-beds.
- **Low linewidth: < 100 kHz**
Ideal for use as local oscillator in coherent transmission.
- **Polarization maintaining output** for use with external modulator
- **No spectral gap between C- and L-band** range of modules
- **Handy Operation**
The platform user-friendly interface allows direct adjustment of the laser from the front panel, as well as simultaneous display of all power and wavelength values on the OSICS front panel.

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Information and specifications are subject to change without notice
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