

# OSICS TLS-AG

## LOW LINEWIDTH WDM TUNABLE LASER SOURCE



Delivers high output power and low linewidth thanks to external cavity design. Can be tuned to any wavelength in C- band. With more than 14 dBm (25 mW) output power, plus high power and wavelength stability, this laser is ideal for coherent WDM transmission testing.

SPEC SHEET

### KEY FEATURES

Laser on and off in one click

Selection of pre-configured channel or any wavelength in the covered wavelength range

High power: 14 dBm

Ideal for optical amplifier testing or WDM test beds

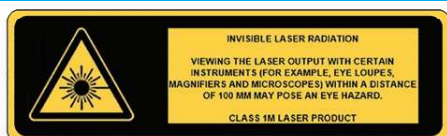
Low linewidth: < 100 kHz

Polarization maintaining output for use with external modulator

L-band range available on request

TECHNICAL SPECIFICATIONS	
	<b>TLS-AG-C</b>
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 <sup>a</sup>
Output power <sup>b</sup>	25 mW (14 dBm)
Power range (dBm)	6 to 14.5 (typical)
Relative frequency (wavelength) accuracy (typical)	±0.5 GHz (±4 pm)
Absolute frequency (wavelength) accuracy (typical) <sup>c</sup>	±1.5 GHz (±12 pm)
Frequency setting resolution	Down to 1 MHz
Tuning speed (s) <sup>d</sup>	20 (typical between two channels)
Power stability (dB) <sup>e</sup>	±0.03
Absolute output power deviation across tuning range (dB)	±0.2
Instantaneous linewidth (FWHM) (kHz)	< 100 kHz
Side mode suppression ratio (dB)	50 (typical)
SSER (dB) <sup>f</sup>	60 (typical)
RIN (dB/Hz) <sup>g</sup>	< -150
Operating temperature range	15 °C to 35 °C (59 °F to 95 °F)
Optical interface	FC/APC connector on PMF PER 18 dB (typical)
Control interface	Status LED, laser on/off button
Dimensions (W x H x D)	35 mm x 130 mm x 250 mm (1 3/8 in x 5 1/8 in x 9 7/8 in) (single slot)
Weight	1 kg (2.2 lb)
Laser safety	Class 1M

## LASER SAFETY



### Notes

- L-band available upon request.
- 16 dBm available as an option.
- ±2.5 GHz (±22 pm) end of life.
- 30 s max, including power stabilization.
- At a constant temperature.
- Integrated over a 0.1 nm band.
- RIN within the range 100 MHz–20 GHz measured at 10 dBm output power with RBW = 30 kHz.

## ORDERING INFORMATION

## OS-TLS-AG-XX-XX-58

**Wavelength range** ■

C = 1527,41–1568,57 nm

L = 1568,77–1610,06 nm<sup>a</sup>**Optical power output** ■

00 = Standard optical power output

16 = 16 dBm optical power output<sup>b</sup>**Connector** ■

58 = FC/APC

Example: OS-TLS-AG-C-00-58

**Notes**

a. Call factory.

b. Not available with L wavelength range.

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