

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

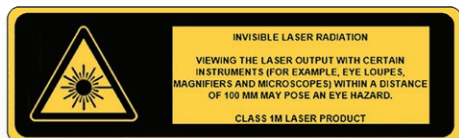
Low linewidth: < 100 kHz

Polarization maintaining output for use with external modulator

L-band range available on request

TECHNICAL SPECIFICATIONS	
	TLS-AG-C
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 ^a
Output power ^b	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) ^c	±1.5 GHz (±12 pm)
Frequency setting resolution	Down to 1 MHz
Tuning speed (s) ^d	20 (typical between two channels)
Power stability (dB) ^e	±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) ^f	60 (typical)
RIN (dB/Hz) ^g	< -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

- a. L-band available upon request.
- b. 16 dBm available as an option.
- c. ±2.5 GHz (±22 pm) end of life.
- d. 30 s max, including power stabilization.
- e. At a constant temperature.
- f. Integrated over a 0.1 nm band.
- g. 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^a**Optical power output** ■

00 = Standard optical power output

16 = 16 dBm optical power output^b**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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