



Wavelength range	1528 nm – 1568 nm
Fiber type	PM
Connector type	FC/APC
Package	Tunable Laser Module



*This component complies with the applicable portions of
21 CFR 1002.10 / 21 CFR 1002.11 / 21 CFR 1002.12
21 CFR 1002.13 / 21 CFR 1002.30a / 21 CFR 1002.30b
21 CFR 1040.10 / 21 CFR 1010.2 / 21 CFR 1010.3*

CAUTION: Observe precautions for handling electrostatic discharge sensitive devices

All information contained herein is believed to be accurate and is subject to change without notice. No responsibility is assumed for its use, Chilas B.V., reserves the right to change any product, specification, or data, without notice, to improve reliability, function, design or otherwise.

Please contact Chilas B.V. for more information.

Comet Product Datasheet

1. Performance and specifications

Optical	Parameter	Specified values
	Wavelength range	1528 nm – 1568 nm
	Wavelength grid	4 pm
	Swept source characteristics	40 nm/s
	Fiber output power	≥ 13 dBm
	Fiber type	PM FC/APC
	Intrinsic linewidth	≤ 5 kHz
	Side-mode suppression ratio	≥ 50 dB

Package	Parameter	Specified values
	Dimensions (LxWxH)	100*60*20 mm
	Weight	167 g
	Operating temperature	15 – 50 °C
	Power supply voltage	5 V _{DC}
	Power supply current	3.8 A
	Interface connector	DE-9
	Modulation/RF connector	SMB (on request)

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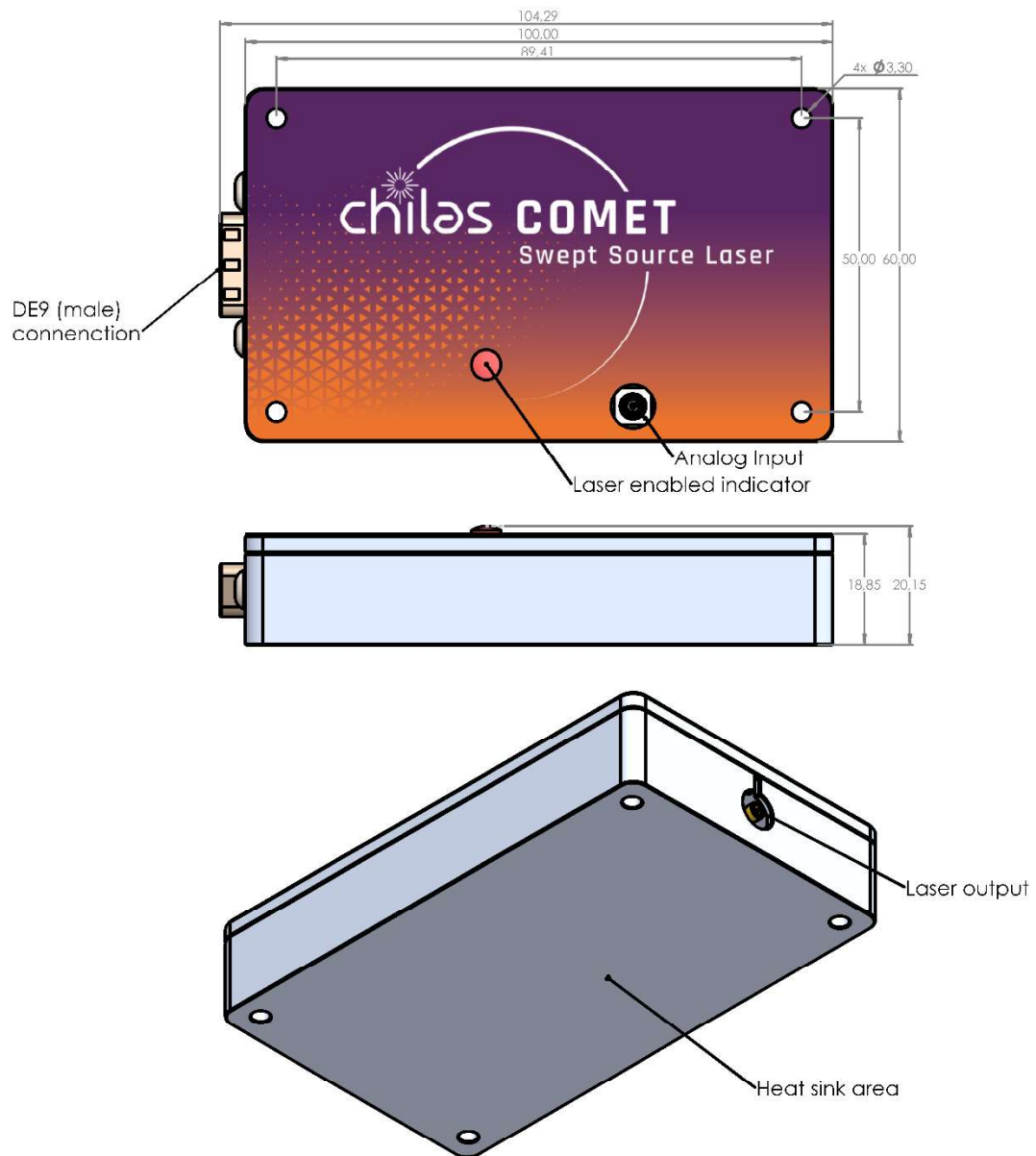


Figure 1: Schematic drawing

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2. Typical measurement results

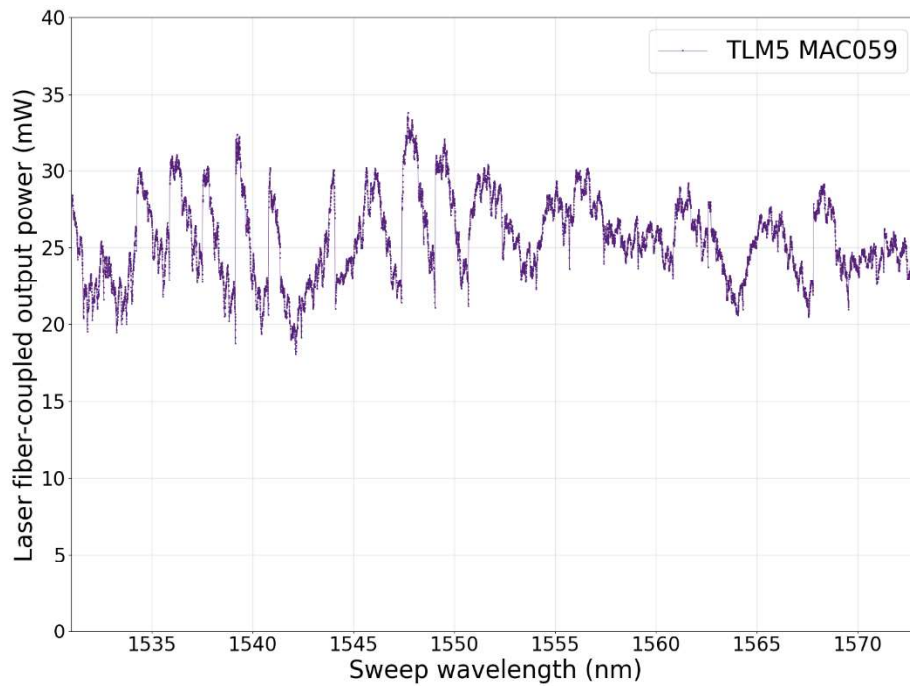


Figure 2 Power vs wavelength when sweeping the full wavelength range using the Chilas Comet

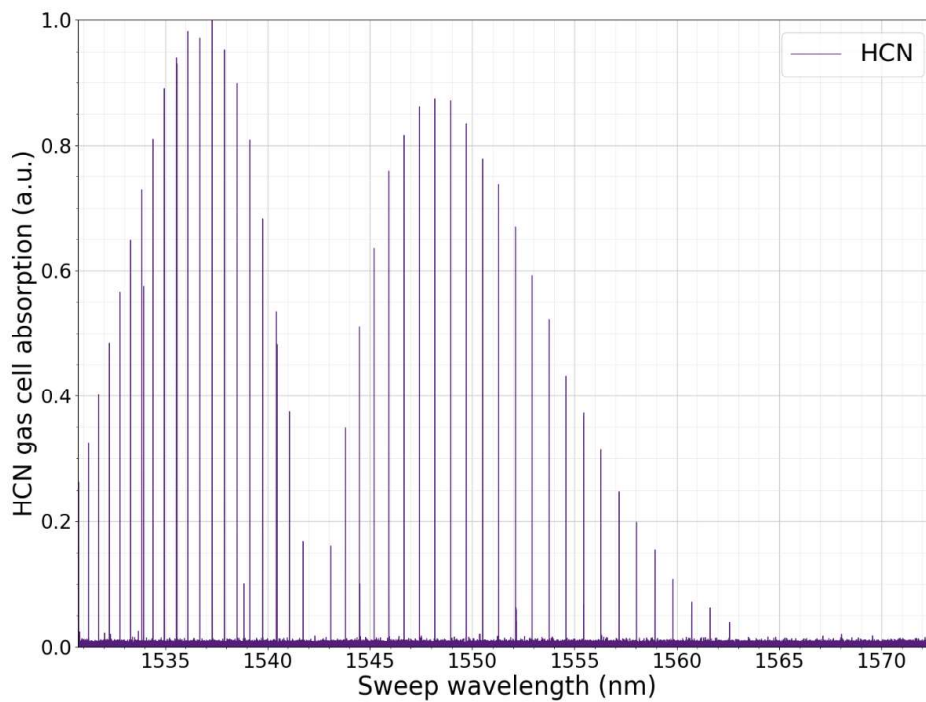


Figure 3 Measured absorption spectrum of an HCN gas cell using the Chilas Comet.

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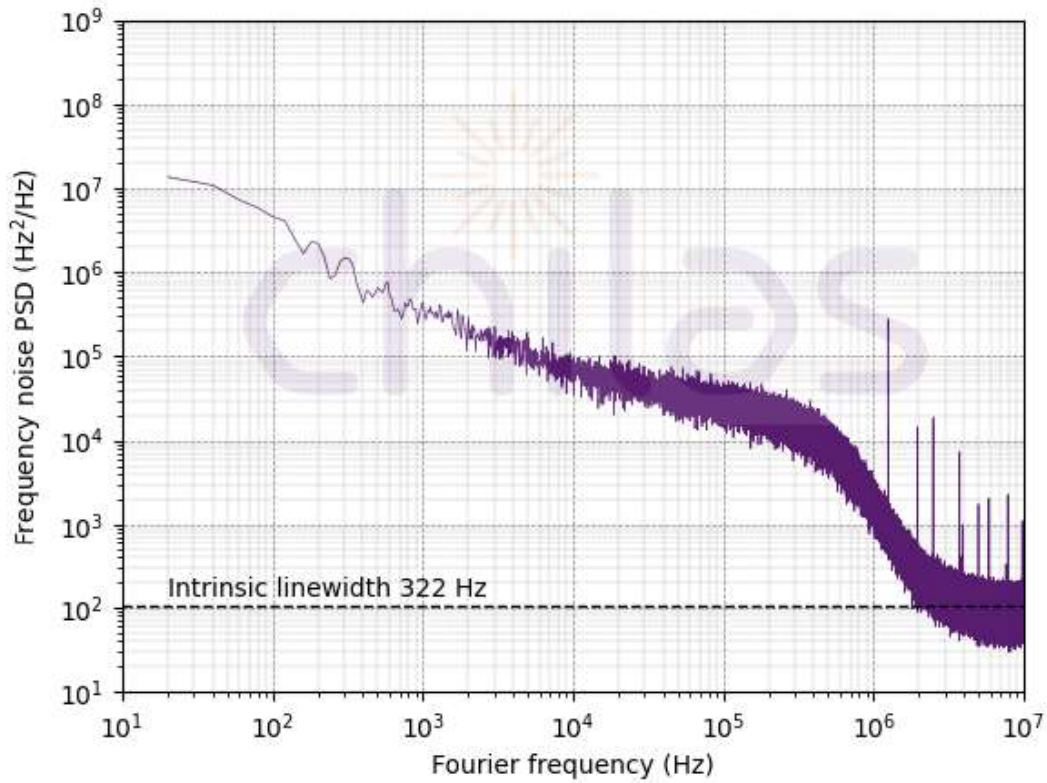


Figure 4 Phase noise measurement showing an intrinsic linewidth of 322 Hz

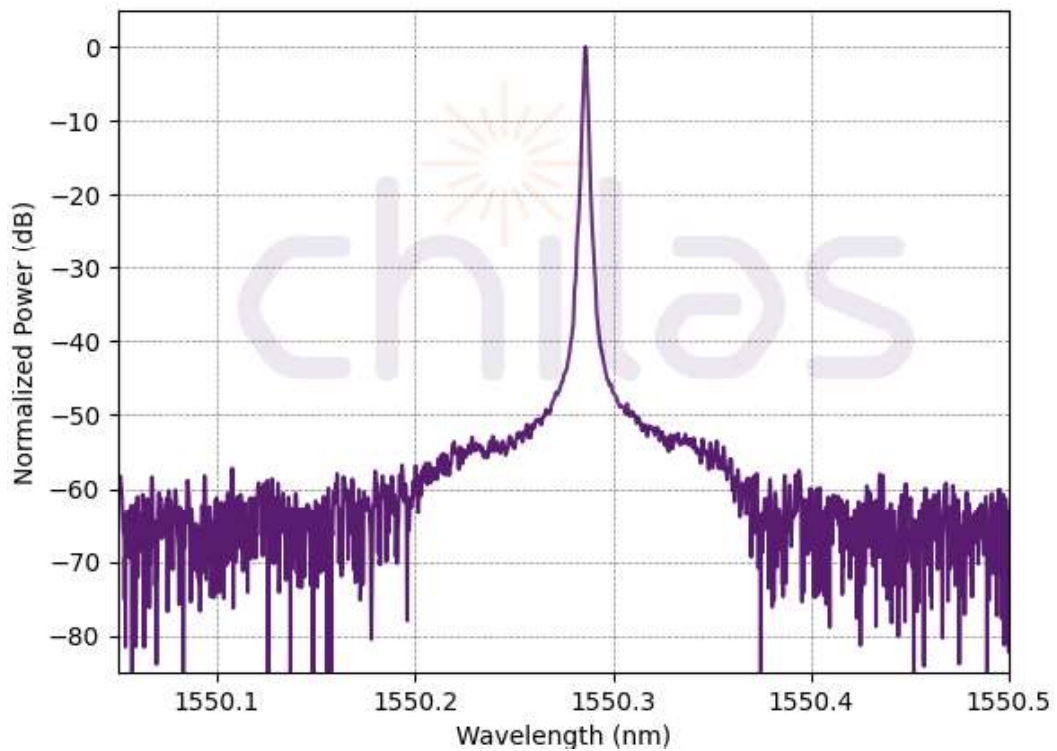


Figure 5 Side- mode suppression ratio, representative for the whole wavelength range