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MENHIR-1550 SERIES - 1 GHz

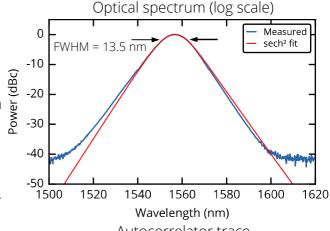
The MENHIR-1550 SERIES is the first industrial-grade laser of its kind that operates at telecom wavelengths and achieves the lowest phase noise and timing jitter on the market. In this document, we report the full characterization of the product operating at a repetition rate of 1 GHz.

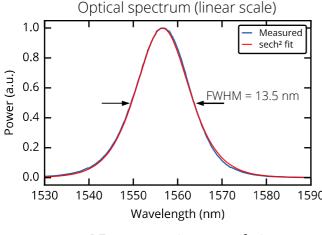
Key product specifications

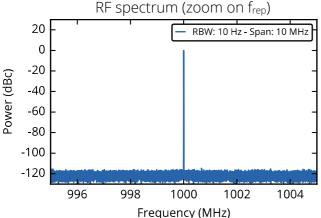
- f_{rep}: 1 GHz
- Power: > 50 mW *
- λ_0 : 1545 1565 nm
- Clean soliton pulse

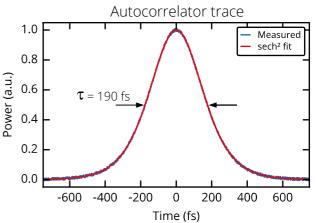
* Valid for lasers without options

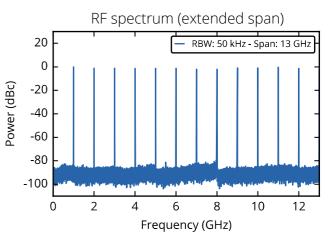
- Bandwidth: > 10 nm
- Pulse width: < 250 fs (Transform limited)
- Sech²-shaped spectrum
- Beam characteristics: TEM_{00} , $M^2 < 1.05$





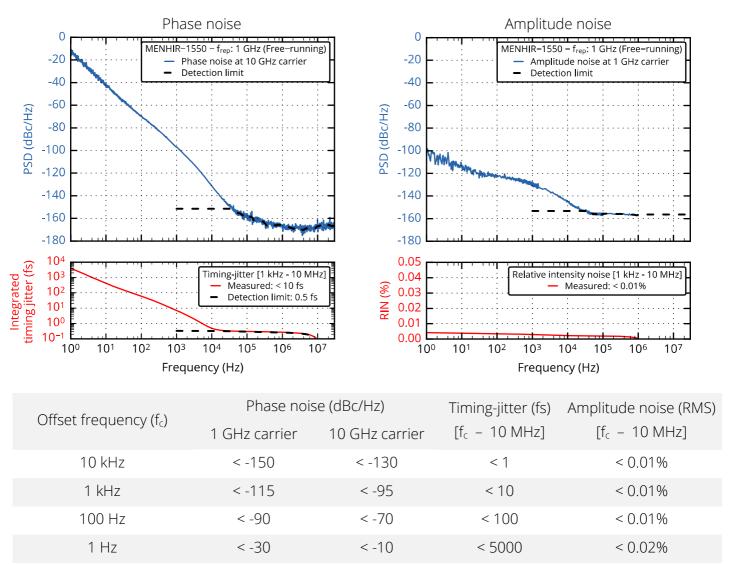




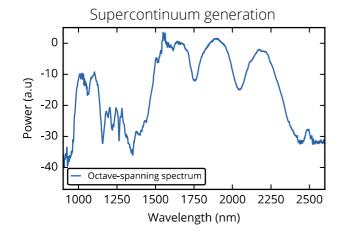


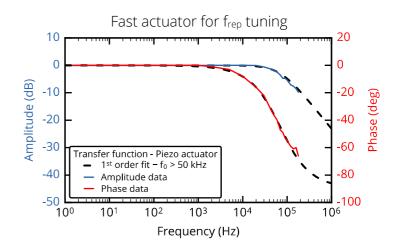
Noise characterization (Free-running)

The free-running phase and amplitude noise of a MENHIR-1550 at 1 GHz is reported here. The phase noise was measured on the 10th harmonic, *i.e.*, at 10 GHz.



Possibilities and options





The data represents an example of a MENHIR-1550 at 1 GHz. Please inquire for custom modifications.