

External cavity grating stabilized diode laser at 1178 nm

General specifications

External resonator configuration	Littrow type
Tuning range	1160 – 1200 nm (min.)
Output power at 1178 nm	> 200 mW
Linewidth	< 50 kHz @1 ms (typical)
Single-frequency mode-hop free fine tuning (with PZT)	approx. 3 GHz
Current modulation bandwidth fast input slow input	1 – 50 MHz DC – 250 kHz
Connectors	SMA
Dimensions H x W x L (mm)	80 x 60 x 120

Ultra-low-noise precision microprocessor-controlled laser diode driver

Output current	1000 mA (max)
RMS current noise (1 MHz bandwidth)	Approx. 1 μ A
Current setting time (slow start)	Approx. 1 s
Temperature regulation range	15 – 25 $^{\circ}$ C
TEC output current (max)	1.5 A
Display resolution	10 mK
Temperature instability (24h)	< 5 mK
Dimensions (approx.) HxWxL (mm)	90 x 220 x 240
Voltage	100 - 240 VAC
Option #1	Computer control
Option #2	Additional temperature stabilization



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