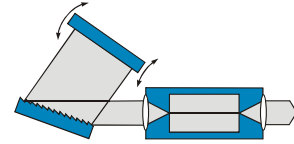
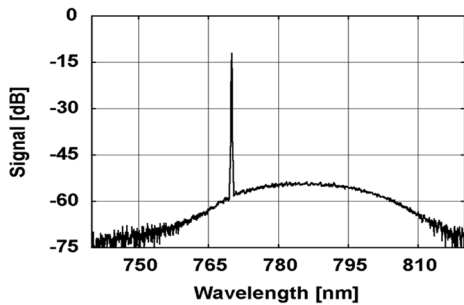


Lion Series: TEC-520-780-100



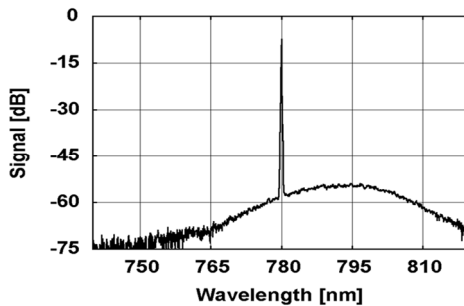
Description:

The TEC-520-780-100 is an External Cavity Diode Laser in Littman Configuration. It is designed for applications which require high output power as well as low linewidth like iodine, rubidium, potassium high resolution spectroscopy and optical cooling and trapping, Bose-Einstein condensation, fermionic Bose-Einstein condensation or Raman spectroscopy.



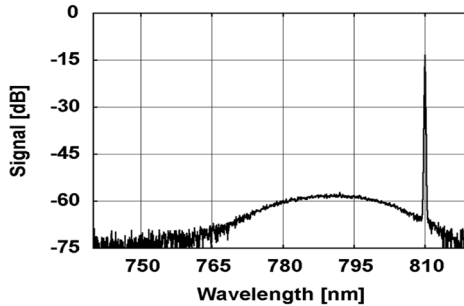
lowest wavelength

wavelength: 770nm
power: 30mW



center wavelength

wavelength: 790nm
power: 100mW



highest wavelength

wavelength: 810nm
power: 60mW

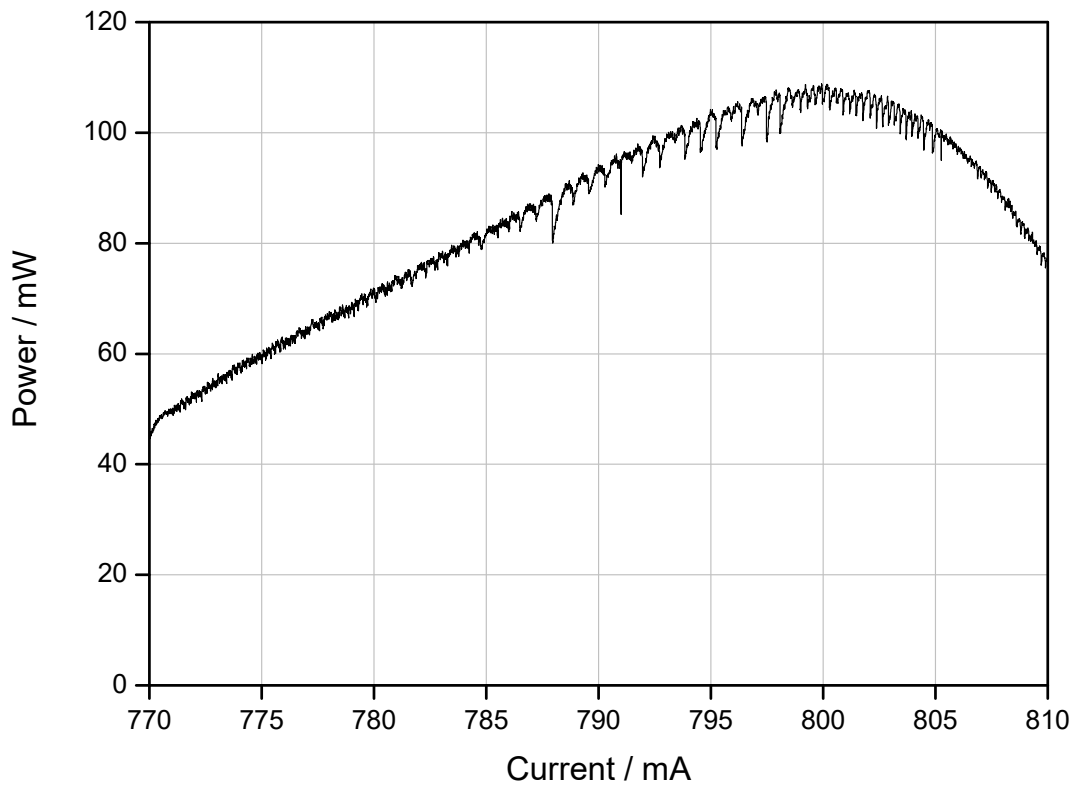
Specification:	output power	> 100mW at gain max.
	beam profile	elliptic, typ. ratio = 1:3
	polarization	linearly, > 20:1
	linewidth (1ms)	< 100kHz
	linewidth (1s)	< 1MHz, typ.
	side mode suppression	> 50dB, typ. > 55dB
	coarse tuning range	40nm, typ.
	piezo fine tuning	1.9GHz/V, typ.
	piezo fine tuning range @ 27V (100V)	> 50GHz (190GHz)
	mechanic cavity resonance	> 1.7 kHz
	thermal stability	< 100 MHz/°C

Document: <http://docs.sacher-laser.com/s5-0780-r.pdf>
 Note: Specification are subject to change without further notice.



Motorized Version (option at additional costs):

Motor Tuning:



Coarse-Tuning Resolution: 1.2 pm/step

Maximum Coarse Tuning Speed: 20 nm/s

Typical Wavelength Repeatability: 0.01 nm

10s of Nanometers of mode-hop free tuning due to patented cavity design,
 c/f <http://docs.sacher-laser.com/pivotpoint.pdf>, page 12 .. 15

Document: <http://docs.sacher-laser.com/s5-0780-r.pdf>

Note: Specifications are subject to change without further notice.

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