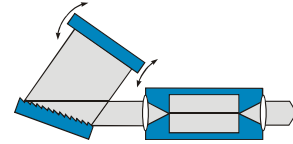
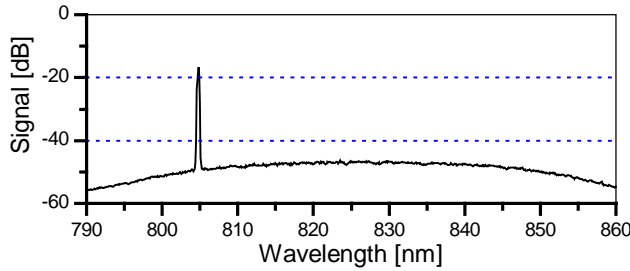


Lion Series: TEC-520-830-080



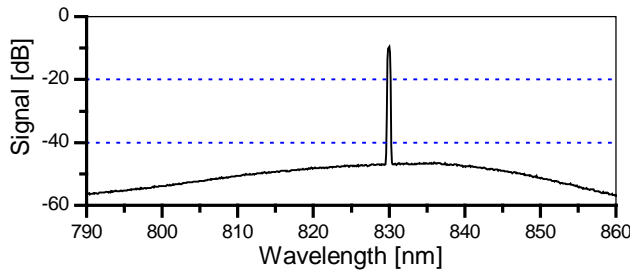
Description:

The TEC-520-830-080 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 cesium high resolution spectroscopy, optical cooling and trapping for producing a Bose-Einstein condensate or Raman spectroscopy.



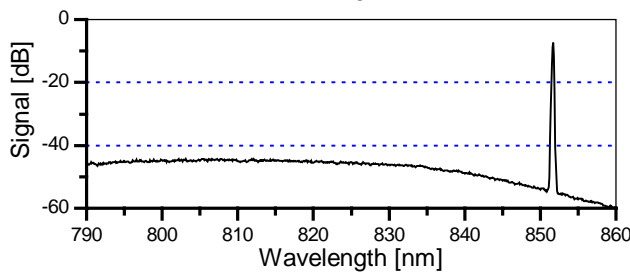
lowest wavelength

wavelength: 805nm
power: 35mW



center wavelength

wavelength: 830nm
power: 85mW



highest wavelength

wavelength: 852nm
power: 40mW

Specification:	output power	> 80mW, typ. 100mW at gain max.
	beam profile	elliptic, typ. ratio = 1:3
	polarization	linearly, > 20:1
	linewidth (50ms)	< 1MHz, typ. < 0.5MHz
	linewidth (20s)	< 5MHz, typ. < 2MHz
	side mode suppression	> 40dB, typ. > 45dB
	coarse tuning range	> 30nm, typ. > 45nm
	fine tuning range (total)	> 0.5nm = 250GHz
	fine tuning range (modehop free)	> up to 60GHz (depending on wavelength)
	frequency modulation (@ 10 GHz amplitude)	> 0.5kHz
	long term drift (24 h)	typ: 300MHz

Document: <http://data.sacher-laser.com/Lion/Li0830080.pdf>
 Note: Specification are subject to change without further notice.

