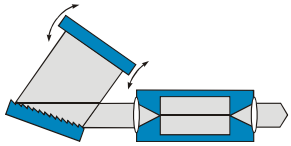
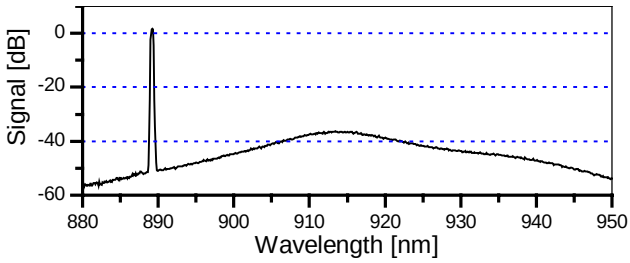
Lion Series: TEC-520-920-100



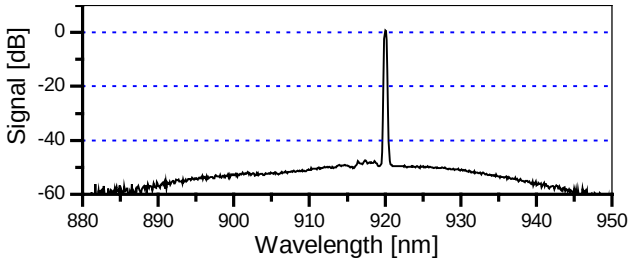
Description:
The TEC-520-0920-100 is an External Cavity Diode Laser in Littman Configuration. It is designed for applications, which require high output power as well as low linewidth like cesium high resolution spectroscopy, optical cooling and trapping for producing a Bose-Einstein condensate or Raman spectroscopy.



lowest wavelength

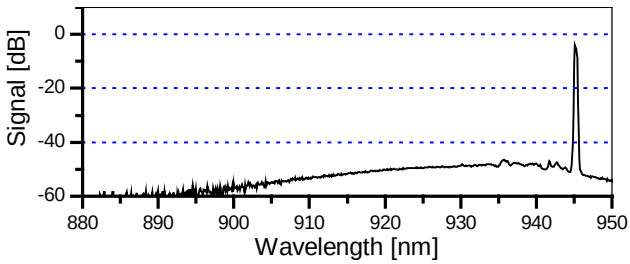
wavelength: 890nm
power: 65mW

power: > 75mW @ 895nm



center wavelength

wavelength: 930nm
power: 105mW



highest wavelength

wavelength: 945nm
power: 75mW

Specification:

output power	>100mW, typ. >105mW 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/Li0920100.pdf
Note: Specification are subject to change without further notice.

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