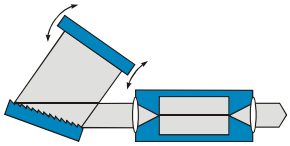
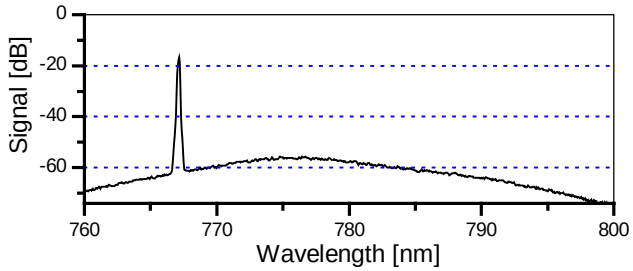
Lion Series: TEC-520-780-100

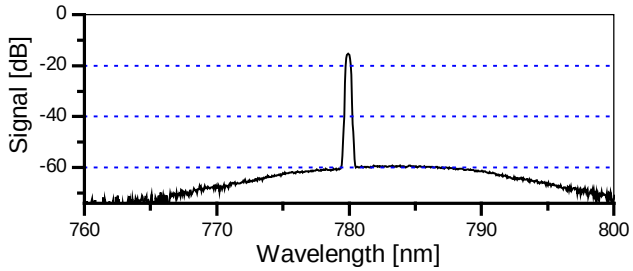


Description:
The TEC-520-780-100 is an External Cavity Diode Laser in Littman Configuration. It is designed for applications which require high output power as well as low linewidth like iodine, rubidium, potassium high resolution spectroscopy and optical cooling and trapping, Bose-Einstein condensation,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



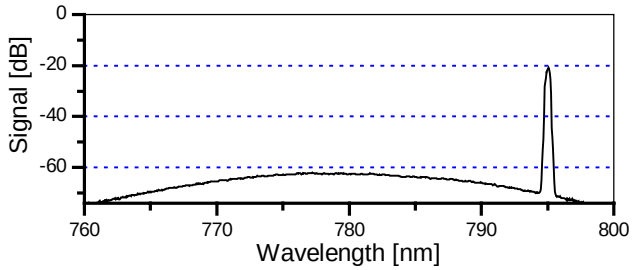
lowest wavelength

wavelength: 767nm
power: 75mW



center wavelength

wavelength: 780nm … 785nm
power: 110mW



highest wavelength

wavelength: 795nm
power: 90mW

Specification:

output power	> 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	> 15nm
fine tuning range (total)	> 0.5nm = 250GHz
fine tuning range (modehop free)	>…up to 100GHz (depending on wavelength) >...up to 160GHz with diode selection
frequency modulation (@ 10 GHz amplitude)	> 0.5kHz
long term drift (24 h)	typ: 300MHz

Document: http://data.sacher-laser.com/Lion/Li0780100.pdf
Note: Specification are subject to change without further notice.

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