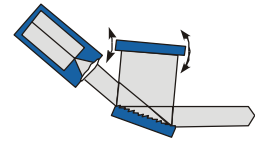
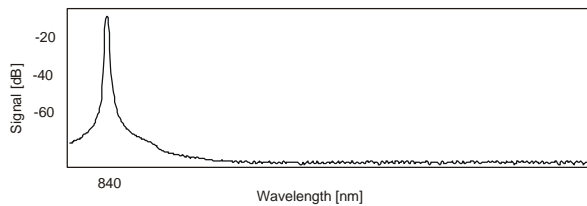


# Lion Series: TEC-500-850-20



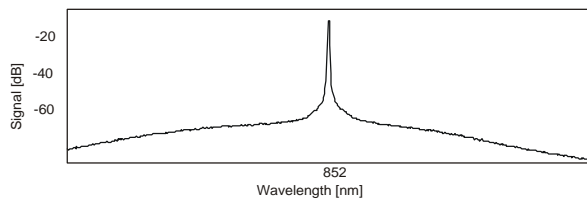
**Description:**

The TEC-500-850-20 is an External Cavity Diode Laser in Littman Configuration. It is designed for applications which require high modehop free tuning range, high output power as well as low linewidth like Cs spectroscopy.



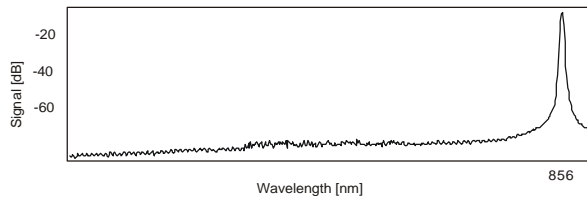
**Wavelength  
Lower Border of the Tuning Range**

Wavelength: 840nm  
Power: 20mW



**Wavelength  
Gain Maximum**

Wavelength: 852nm  
Power: 22mW



**Wavelength  
Upper Border of the Tuning Range**

Wavelength: 856nm  
Power: 20mW

<b>Specification:</b>	output power	>20mW, typ. >25mW at gain maximum
	beam profile	elliptic, typ. ratio = 1:4
	polarization	linearly, typ. > 100:1
	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 = 200GHz
	fine tuning range (modehop free)	> 15-30GHz, typ. > 50GHz
	frequency modulation ( @ 10 GHz amplitude )	> 0.5kHz
	long term drift ( 24 h )	typ: 300MHz

Document: <http://data.sacher-laser.com/LMN/LN085020.pdf>  
 Note: Specification are subject to change without further notice.

