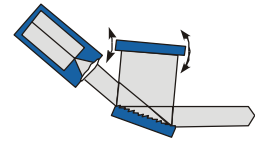
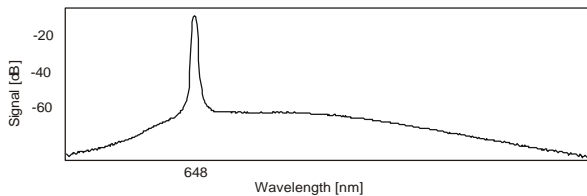


# Lion Series: TEC-500-655-03



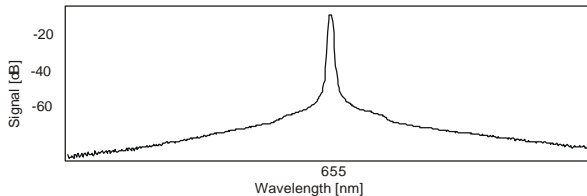
## Description:

The TEC-500-655-03 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 Ba<sup>+</sup>, Ca, H spectroscopy and Optical data storage.



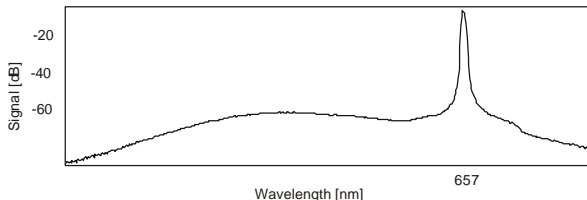
### Wavelength Lower Border of the Tuning Range

Wavelength: 648nm  
Power: 3mW



### Wavelength Gain Maximum

Wavelength: 655nm  
Power: 5mW



### Wavelength Upper Border of the Tuning Range

Wavelength: 657nm  
Power: 3mW

<b>Specification:</b>	output power	>2mW, typ. >5mW 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	> 6nm
	fine tuning range (total)	> 0.4nm = 300GHz
	fine tuning range (modehop free)	> 10-30GHz, typ. > 50GHz
	frequency modulation ( @ 10 GHz amplitude )	> 0.5kHz
	long term drift ( 24 h )	typ: 300MHz

Document: <http://data.sacher-laser.com/LMN/LN065503.pdf>  
 Note: Specification are subject to change without further notice.

