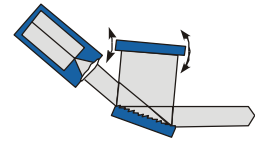
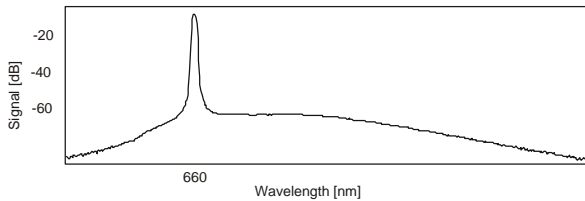


Lion Series: TEC-500-665-03



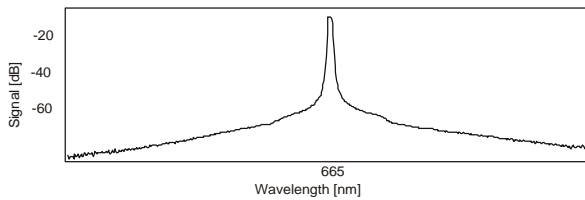
Description:

The TEC-500-665-03 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⁺ spectroscopy.



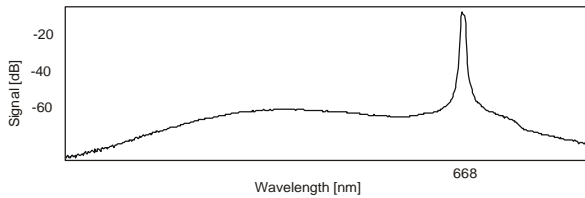
**Wavelength
Lower Border of the Tuning Range**

Wavelength: 660nm
Power: 2mW



**Wavelength
Gain Maximum**

Wavelength: 665nm
Power: 3mW



**Wavelength
Upper Border of the Tuning Range**

Wavelength: 668nm
Power: 2.5mW

| | | |
|-----------------------|--|---------------------------------|
| Specification: | output power | >2mW, typ. >3mW 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 | > 30dB, typ. > 35dB |
| | coarse tuning range | > 5nm |
| | 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/LN066503.pdf>
 Note: Specification are subject to change without further notice.

