



DPSS “eye – safe” 1,5 μm CW erbium laser



FEATURES:

Up to 500 mW of continuous wave power
Compact DPSS design
1522 nm, 1531 nm, 1550 nm or 1602 nm
wavelength models
High beam quality

APPLICATIONS:

Optical instrumentation
Metrology and spectroscopy
Life sciences



**Laser specifications:**

Wavelength	1522 nm	1531 nm	1550 nm	1602 nm
Wavelength tolerance	± 1 nm			
Beam divergence, full angle	<5 mRad			
Beam diameter at exit window	<1 mm			
Beam quality	$M^2 < 1,5$			
Beam profile	TEM ₀₀			
Polarization ratio	Linear, >100:1			
Average output power	300 mW	300 mW	400 mW	300 mW
Power stability (3 hour)	<1 % (after 30 min of warm up)			

Physical dimensions:

Laser module dimensions	175 x 78 x 86 mm (L x W x H)
Laser driver dimensions	164 x 105 x 44 mm (L x W x H)

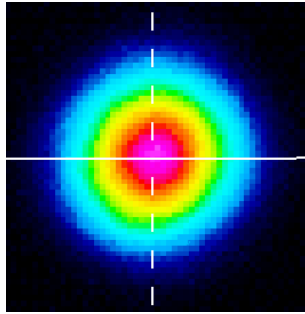
Utility requirements:

Pump current	5-10 A
Electric	100-240 V AC, 50/60 Hz, 1.4 A
Operating temperature	15 – 25 °C
Cooling	TEC element + air cooling

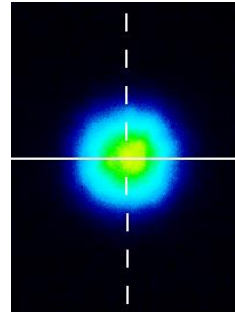




Laser beam profile:

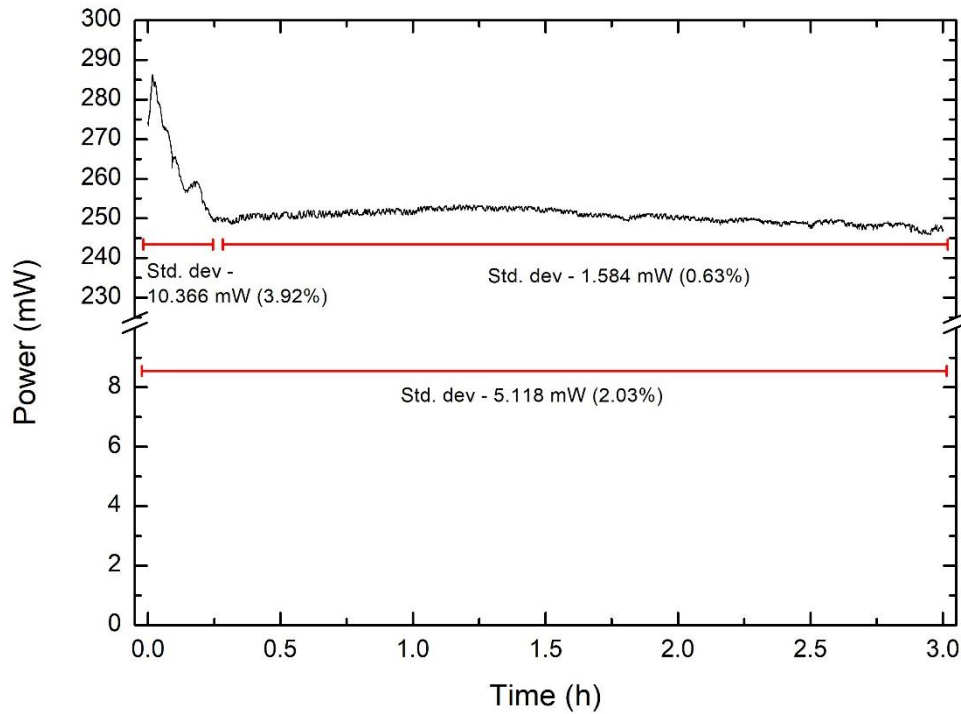


Near field (14 cm from the laser) beam profile



Far field (70 cm from the laser) beam profile


Power stability:



Power stability measurement for 1531 nm laser with 25 min of warm up

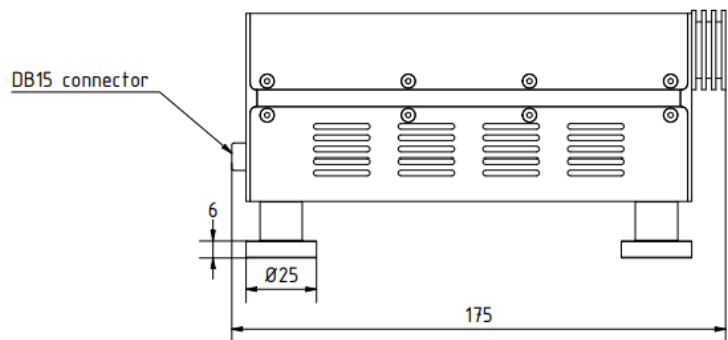
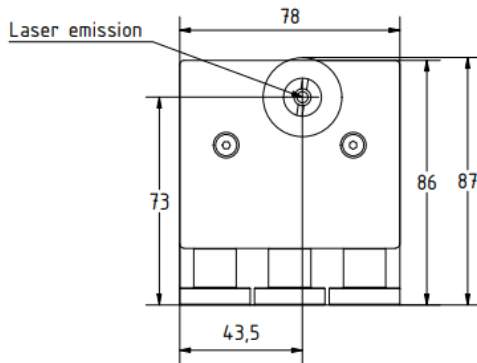


Necessary components to run the laser:


 <p>DPSS laser head*</p>	 <p>Laser driver</p>
 <p>Power supply with cables</p>	 <p>USB-RS232 adapter</p>

*DPSS laser head render does not match with laser head scheme. Please follow the schemes for real laser head dimensions.

Laser head schemes:



Laser safety class:



LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT