

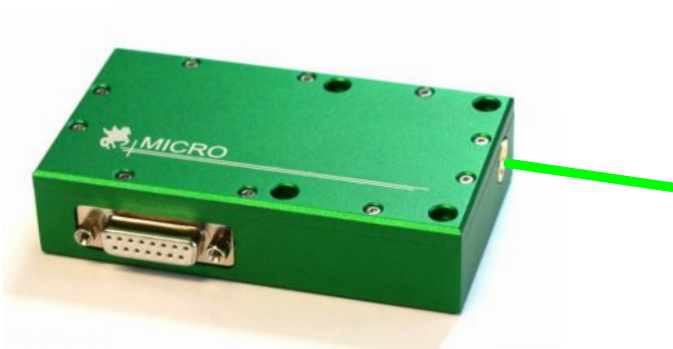
# MICRO532

## 532 nm OEM module

The DPSS modules of the MICRO series are especially designed for easy integration in OEM systems. A small footprint leads to minimized volume of customers system.

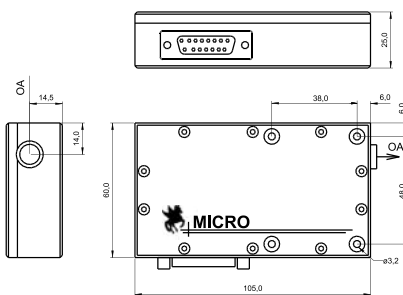
With divergence  $< 1$  mrad (800 mW version) and  $< 1.5$  mrad (1.6 W version) and near TEM<sub>00</sub> mode shape, the beam can be directly used for most applications without any additional optics.

Dependent on customers driver the output power can be directly modulated  $> 50$  kHz (-3 dB). In "stand alone" operation the laser can be controlled by an optional available laboratory driver.



- Low operation current  $< 8$  A at 1.6 W
- Compact housing for OEM integration
- Low cooling required
- Direct modulation  $> 50$  kHz (depending on driver)

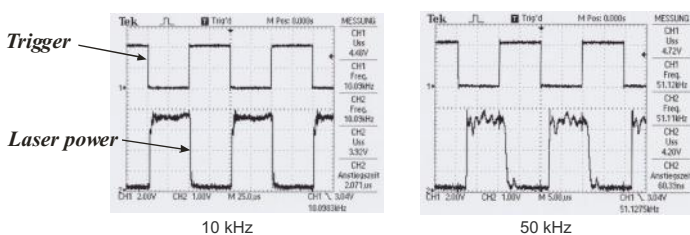
Model	Power (mW)	Operation current (A)	M <sup>2</sup>
PL.M532.800	800	$< 5$ (typ. $< 4$ )	$< 2$
PL.M532.1600	1600	$< 9$ (typ. $< 8$ )	$< 4$



The module can be directly modulated with fast customers driver via a 0 - 5 VDC trigger signal. With rise times  $< 5$   $\mu$ s, the laser output power can be modulated nearly analog up to 50 kHz.

This allows the user to trigger the laser with detection system.

### Amplitude modulation DC - 50 kHz



## 532 nm

## 800 mW - 1600 mW

### Specifications

Wavelength	532 nm
Optical power	800 mW, 1600 mW
Spatial mode	Low multimode
Beam diameter (aperture)	$< 2$ mm
Divergence	$< 1.5$ mrad
Power stability (over 1 h)	$< +/- 5$ %
Polarisation	$> 100:1$ (horizontal)
Fiber coupling efficiency	$> 70$ % (50 $\mu$ m)
Modulation	DC - 50 kHz (-3dB)
LD operation current	$< 9$ A
Laser head dimension	105 x 60 x 25 mm <sup>3</sup>
Laser head weight	340 g
Laser class (EN 60825-1)	4

### Typical applications



Laser display



Optical pumping



Spectroscopy