Fiber Coupled Diode Lasers

The SRT-F OEM Series of fiber coupled lasers are temperature controlled to provide a highly stable laser with excellent beam quality. A range of discrete wavelengths are available from 405nm to 1550nm.

Lasers are coupled to singlemode, polarization maintaining or multimode fiber with high output powers from the fiber end. The laser body contains the laser, thermistor, TE cooler, heat sink and coupling optics in a compact package. Drive electronics are separate from the laser head making for a more compact device.

Two choices of fiber coupled lasers are available. One with a spectral bandwidth of <2nm and the other with a spectral bandwidth <0.1nm. Please call for details.

Output can be collimated with our FC Series of fiber collimators with adjustable focus. They are available with apertures from 3mm to 45mm. Please see the Fiber Collimator data sheet.

These lasers are excellent choices for Confocal Microscopy, fluorescence microscopy, evanescent wave microscopy, interferometry, precision alignment, wafer inspection, remote sensing and many other applications.

Features

• Singlemode, PM or multi-mode fiber
• 405nm to 1550nm
• Higher output powers
• Temperature stabilized
• High stability
• Collimator options
• Low power requirements
Fiber Coupled Diode Lasers

Specifications
- Wavelengths: 405nm to 1550nm
- Wavelength tolerance: +/-10nm or less
- Spectral width: <2nm or <0.1nm
- Output powers: 6 to 120mW
- Power stability: <1% for most
- Fiber: Singlemode for the wavelength
- Fiber jacket: 3mm standard (900μm jacket, Stainless steel sheath as options)
- Termination: FC/UPC, FC/APC, SMA
- Power requirements: 5 VDC, 2 Amps for λ>600nm
  8 VDC, 2 Amps for λ<600nm
- Operating temp. range: 15°C (or dew point) to 30°C
- Storage temp. range: 0-70°C

Options
- Polarization maintaining fiber and multimode fiber for all wavelengths listed are also available. Standard connection is FC/UPC with FC/APC as an option. SMA connectors are also available for multimode fibers. All lasers come equipped with a mounting plate to ease mounting.

A series of Fiber Collimators are available to generate beam sizes from 2mm to 45mm in diameter and snap onto the end of the fiber to give a very well corrected, highly collimated beam.

Fiber splitters are available for all wavelengths.

We can combine 2 to 4 laser wavelengths into a single fiber output which is installed in a single package for ease of use.

Ordering Information
(all lasers have temperature control)

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>SRT-F405M-50/OSYS</td>
<td>405+/-5, 50mW</td>
</tr>
<tr>
<td>SRT-F450M-15/OSYS</td>
<td>450+/-10, 15mW</td>
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<td>SRT-F488M-20/OSYS</td>
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<td>SRT-F520M-15/OSYS</td>
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<tr>
<td>SRT-F1550D-2/OSYS</td>
<td>1550+/-10, 1.5mW</td>
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</tbody>
</table>

Listed are the most popular wavelengths using single-mode fiber. Please call for other wavelengths or power levels. We can customize any of these lasers for users requirements.

Specifications subject to change without notice.

Micro Laser Systems, Inc.
12841 Western Ave. Suite H, Garden Grove, CA 92841
Ph: 714-898-6001   Fax: 714-897-0979 Email: sales@microlaser.com

Laser radiation is emitted as shown
Avoid Exposure
DANGER
LASER RADIATION - AVOID DIRECT EXPOSURE TO BEAM
PEAK POWER < 500mW
WAVELENGTH 630 - 1600nm
CLASS 3B LASER PRODUCT