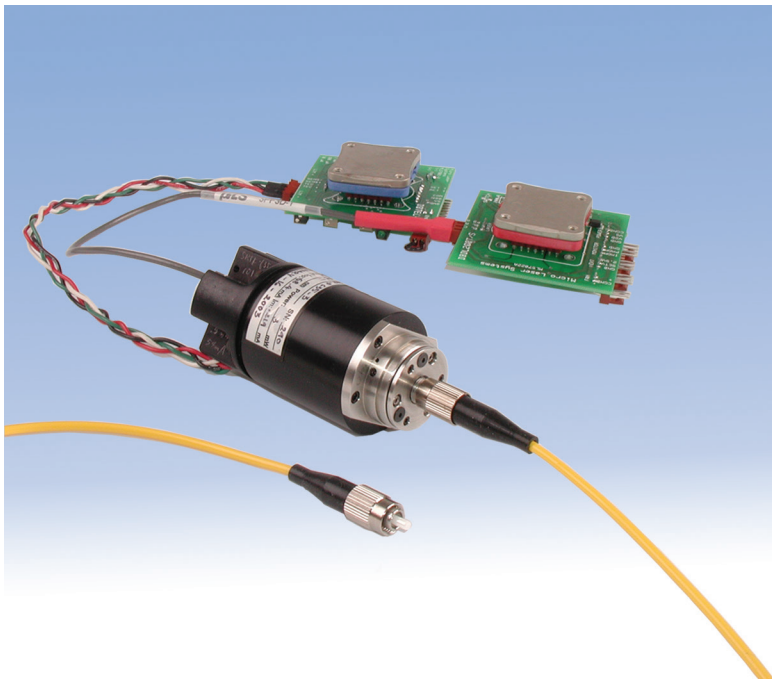
Fiber Coupled Diode Lasers



Features

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

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.

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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.

Specifications subject to change without notice.

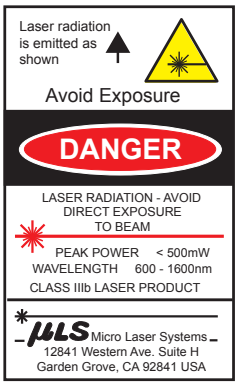
Ordering Information

(all lasers have temperature control)

Model #	Description
SRT-F405M-50/OSYS	405+/-5, 50mW
SRT-F450M-15/OSYS	450+/-10, 15mW
SRT-F488M-20/OSYS	488+/-5, 20mW
SRT-F520M-15/OSYS	520+/-10, 15mW
SRT-F638S-10/OSYS	638+/-5, 10mW
SRT-F640S-25/OSYS	640+/-5, 25mW
SRT-F642S-50/OSYS	642+/-5, 50mW
SRT-F660S-30/OSYS	660+/-5, 30mW
SRT-F660M-40/OSYS	660+/-5, 40mW
SRT-F785M-50/OSYS	785+/-5, 50mW
SRT-F830M-50/OSYS	830+/-10, 50mW
SRT-F852M-50/OSYS	852+/-5, 50mW
SRT-F975M-120/OSYS	975+/-5, 120mW
SRT-F980M-120/OSYS	980+/-5, 120mW
SRT-F1064M-100/OSYS	1064+/-5, 100mW
SRT-F1310D-2/OSYS	1310+/-10, 1.5mW
SRT-F1550D-2/OSYS	1550+/-10, 1.5mW

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.

Labels are illustrated here to comply with 21 CFR 1040.10 as applicable under the radiations for health and safety act of 1986.



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