

Wavelength Stabilized Raman Laser Module

Key Features:

- Ultra Stable Wavelength
- Narrow Spectrum Width
- Circularized Laser Beam
- Ultra Stable Optical Power
- TTL Modulation Option
- Low Optical Noise
- Long Coherence length

Applications:

- Bio Technology
- Photo Finishing
- Semiconductor Instrument
- Medical Instrument
- Scientific Research
- Raman Application



The FreeBeam[™]780 Raman Laser Module is a highly integrated diode laser module with very narrow spectrum width and stabilized peak wavelength through external cavity technology. It can also have a fiber coupled output with single mode fiber, polarization maintain fiber, 50um, 100um, 200um and 400um core diameter multi mode fiber.



FreeBeamTM780 Raman laser module features very low optical noise and up to 100 KHz TTL modulation capability. Laser output power can be remotely controlled with 0 ~ 5V DC voltage through electrical cable connected or locally controlled with potential meter mounted on the back panel.

The FreeBeam[™]780 Raman Laser Module is a Class III b laser product.



Wavelength Stabilized Raman Laser Module

Specifications:

780+/-0.5nm
75mW
<0.2%
Single Mode
0.001nm
>1 m
0.01nm
<2%
<10urad/°C
100 : 1
2.6 X 1.3mm(Elliptical Beam)
0.6 X 0.9mrad(Elliptical Beam)
9V+/- 0.5V DC
TEC Max 2.5 A, LD Max 140mA
0°C to 40°C (laser case)
5 minutes
10000hrs(MTBF)
100mm(L)X44mm(W)X38.5mm(H)
110mm(L)X50mm(W)X20mm(H)
SAMTEC #: MMCX-J-P-X-RA-TH1*
SAMTEC #: EHF-105-01-L-D-RA*
Single mode and Multi mode(50um, 100um, 200um, 400um)
FC/PC or SMA
Limited One Year

^{*}You can find mating connector information at www.samtec.com

Electrical Pin Assignment:

Number	Function
Pin 1	+9V DC
Pin 2	+9V DC
Pin 3	+9V DC
Pin 4	+9V DC
Pin 5	Power GND
Pin 6	Power GND
Pin 7	Power GND
Pin 8	Power GND
Pin 9	Power Setting
Pin 10	Internal Testing Pin

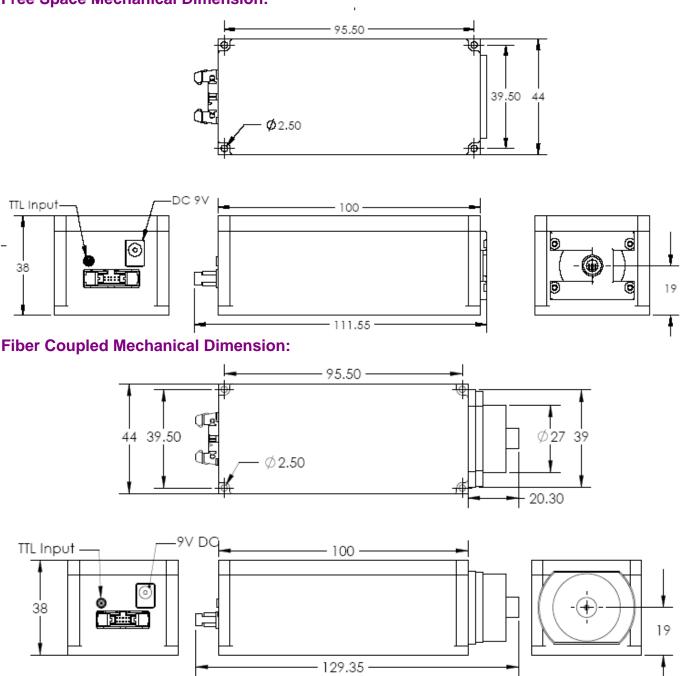


Pin 10 Pin 1



Wavelength Stabilized Raman Laser Module

Free Space Mechanical Dimension:



This component does not comply with the Federal Regulations (21 CFR Sub chapter 1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer. The output light from this product is harmful to a human body even if it is invisible. Avoid looking at the output of this product directly, or through a lens during operation. Observance of operation should be through a TV camera or related equipment. Refer to IEC 825-1 and 21 CFR 1040.10-1040.11 as a radiation safety standard for laser products.

RGBLase LLC follows a policy of continuous product improvement. Specifications are subject to change without notice.