

FocusFiber®

Fiber Coupled Single Bar Diode Laser, Narrow Linewidth



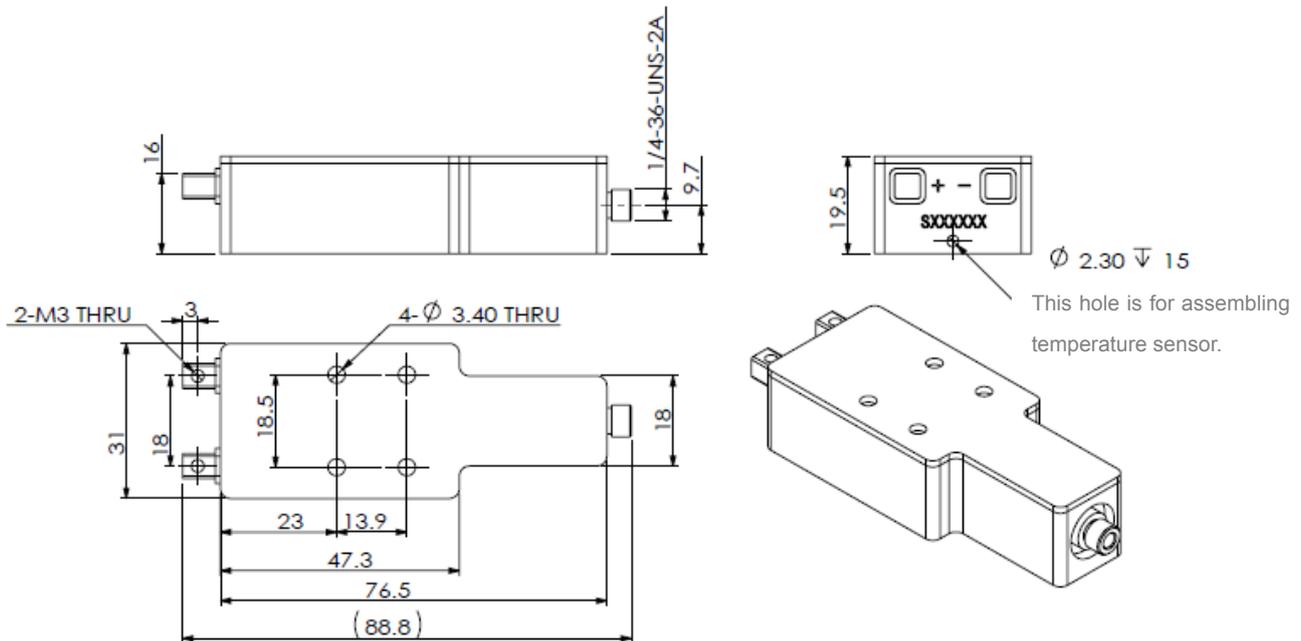
Features

- Narrow Linewidth(VBG)
- Small size, low weight
- High reliability

Applications

- Pumping
- Industry Manufacture
- Medical

Device Dimension (mm)



This structure drawing is only for reference. For any other special requirement, please feel free to contact us.

Fiber Coupled Single Bar Diode Laser, Narrow Linewidth

Specification

Module Type ¹	Units	FL-S30-880	FL-S40-880
Optical ^{3,7}			
Center Wavelength λ ¹⁰	nm	880	880
Wavelength Tolerance	nm	± 0.6	± 0.6
Output Power ²	W	30	40
Spectral Width FWHM	nm	≤ 0.5	≤ 0.5
Wavelength Temp. Coefficient	nm/°C	$\sim 0.01^9$	$\sim 0.01^9$
Fiber Parameters			
Fiber Numerical Aperture	NA	0.22	0.22
Fiber Core Diameter	μm	400	400
Connector Type ⁶	-	SMA905	SMA905
Fiber Length ⁵	m	1.5	1.5
Electrical Parameters ^{3,7}			
Operating Current I_{op}	A	≤ 60	≤ 65
Operating Voltage V_{op}	V	≤ 2	≤ 2
Typical Power Conversion Efficiency	%	≥ 40	≥ 40
Thermal Parameters			
Operating Temperature	°C	20~30	20~30
Recommended Thermal Dissipation Capacity	W	≥ 120	≥ 150

Fiber Coupled Single Bar Diode Laser, Narrow Linewidth

Specification

Module Type ¹	Units	FL-S30-976/981	FL-S40-976/981	FL-S50-976/981
Optical ^{3,7}				
Center Wavelength λ ¹⁰	nm	976/981	976/981	976/981
Wavelength Tolerance	nm	±0.6	±0.6	±0.6
Output Power ²	W	30	40	50
Spectral Width FWHM	nm	≤0.5	≤0.5	≤0.5
Wavelength Temp. Coefficient	nm/°C	~0.01 ⁹	~0.01 ⁹	~0.01 ⁹
Fiber Parameters				
Fiber Numerical Aperture	NA	0.22	0.22	0.22
Fiber Core Diameter	μm	400	400	400
Connector Type ⁶	-	SMA905	SMA905	SMA905
Fiber Length ⁵	m	1.5	1.5	1.5
Electrical Parameters ^{3,7}				
Operating Current I_{op}	A	≤60	≤65	≤75
Operating Voltage V_{op}	V	≤2	≤2	≤2
Typical Power Conversion Efficiency	%	≥45	≥45	≥45
Thermal Parameters				
Operating Temperature	°C	20~30	20~30	20~30
Recommended Thermal Dissipation Capacity	W	≥120	≥150	≥180

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –S(structure code) -50(output power) -9xx(center wavelength).

²Reduced lifetime if used above nominal operating conditions.

³Data at 25°C temperature, unless otherwise stated.

⁴A non-condensing environment is required for storage and operation below ambient dew point.

⁵Fiber length can be specified by customer.

⁶Can be with or without fiber connector.

⁷If there are any other requirements, please contact us.

⁸Temperature sensor is not inside the module, we leave one hole for assembling temperature sensor, more details please see the Device Dimension drawing, so here the type of temperature is ours recommendation .

⁹ Within operating temperature $\pm 3^{\circ}\text{C}$.

¹⁰Others available upon request



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