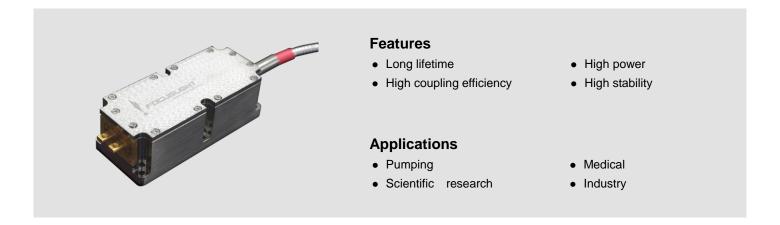
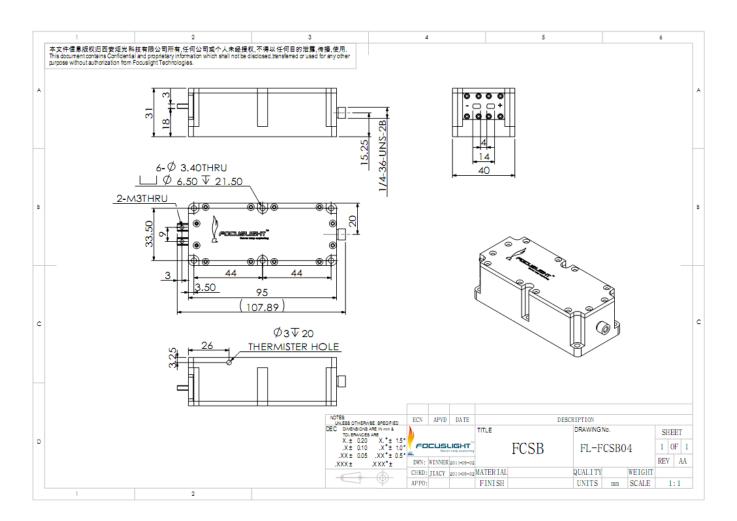


# Fiber Coupled Single Bar Diode Laser (CW)



### **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 (CW)

#### **Specification**

Module Type <sup>1</sup>	Units	FL-FCSB04- 30-808	FL-FCSB04- 40-808	FL-FCSB04- 30-976	FL-FCSB04- 40-976
Optical <sup>3,7</sup>					
Center Wavelength λ	nm	808	808	976	976
Wavelength Tolerance	nm	±3	±3	±5	±5
Output Power <sup>2</sup>	W	30	40	30	40
Spectral Width FWHM	nm	≪4	≪4	≪4	≪4
Spectral Width FW90%E	nm	≪6	≤6	≤6	≪6
Polarization Mode	-	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm/℃	∼0.28	∼0.28	~0.34	∼0.34
Fiber Parameters					
Fiber Numerical Aperture	NA	0.22	0.22	0.22	0.22
Fiber Core/Cladding Diameter	μm	200 or 400	400	200 or 400	400
Connector Type <sup>6</sup>	-	SMA905	SMA905	SMA905	SMA905
Fiber Length	m	1.5	1.5	1.5	1.5
Electrical Parameters 3,7					
Operating Current I <sub>op</sub>	Α	≪45	≤63	≪42	≤55
Threshold Current I <sub>th</sub>	Α	≪9	≤18	<b>≤7</b>	<b>≤7</b>
Operating Voltage V <sub>op</sub>	V	≤2	≤2	≤2	≤2
Slope Efficiency	W/A	≥0.8	≥0.85	≥0.85	≥0.85
Power Conversion Efficiency	%	≥35	≥35	≥40	≥40
Thermal Parameters					
Operating Temperature	$^{\circ}\!$	15~30	15~30	15~30	15~30
Storage Temperature <sup>4</sup>	$^{\circ}\!\mathbb{C}$	0~55	0~55	0~55	0~55
Recommended Thermal Dissipation Capacity	W	≥80	≥120	≥80	≥140

<sup>&</sup>lt;sup>1</sup>Explanation for the name of Module Type: FL(abbreviation of Focuslight) –FCSB04(structure code) -30(output power) -808(center wavelength).



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<sup>&</sup>lt;sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>&</sup>lt;sup>3</sup>Data at 25°C temperature, unless otherwise stated.

<sup>&</sup>lt;sup>4</sup>A non-condensing environment is required for storage and operation below ambient dew point.

<sup>&</sup>lt;sup>5</sup>Fiber length can be specified by customer.

<sup>&</sup>lt;sup>6</sup>Can be with or without fiber connector.

<sup>&</sup>lt;sup>7</sup>If there are any other requirements, please contact us.