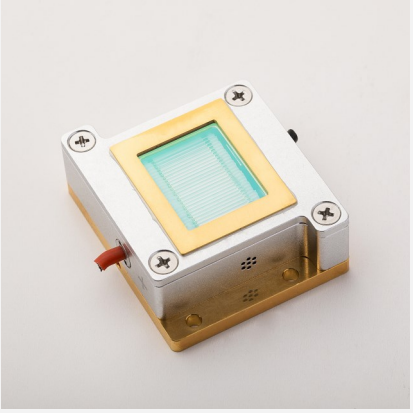
Conduction Cooled QCW Vertical Stack Diode Laser

GS02 Series



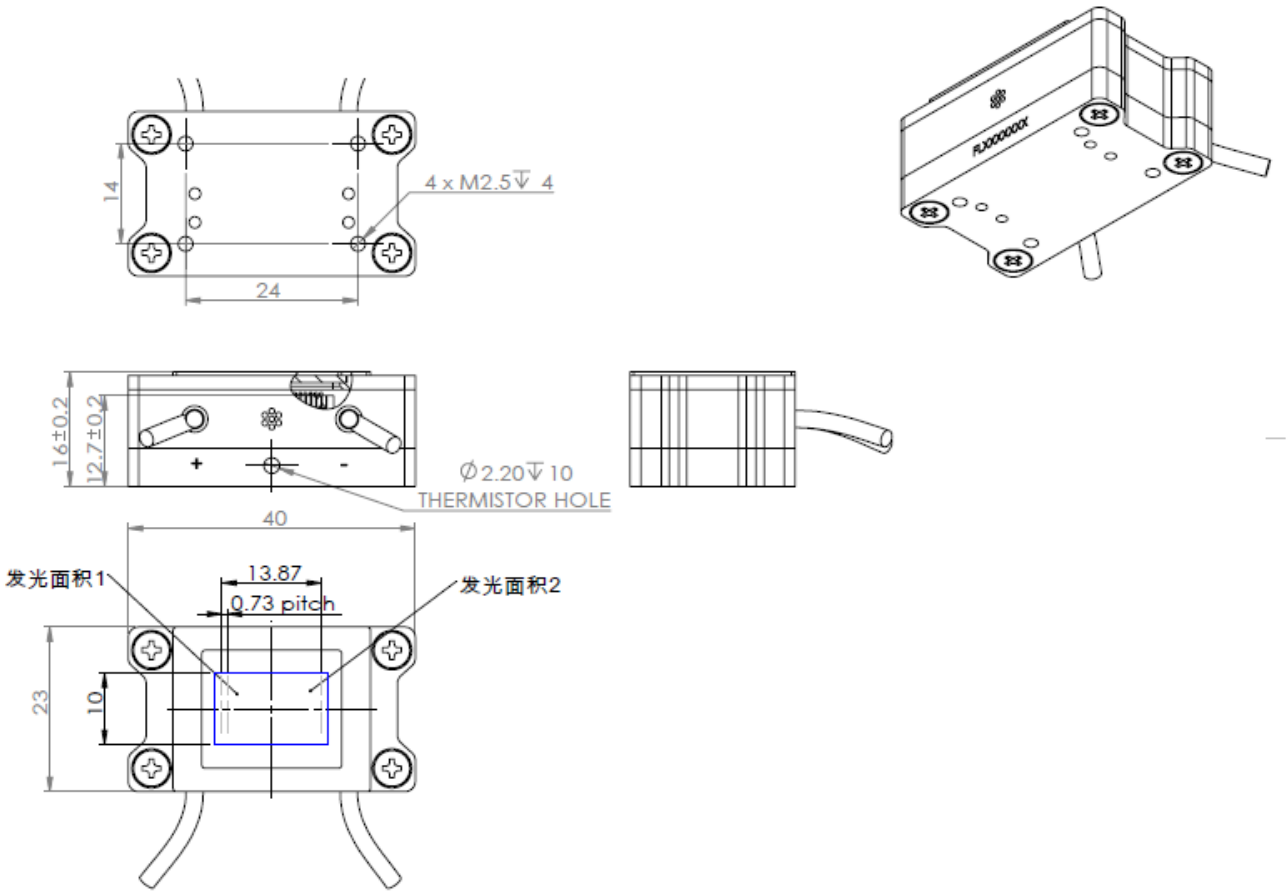
Features

- AuSn Bonding
- High reliability
- Narrow spectrum
- High peak power
- High temperature application
- Compact Size

Applications

- Pumping
- Illumination
- Industry
- Research

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Focuslight Technologies Inc.

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Product Specifications

Product Code		GST000005	GST000007
Part No. [1]		FL-GS02-20x1-3000-808-Y-S(Q)(60°)	FL-GS02-20X1-4000-806-Y-S-(Q)
Test Temperature		60°C	25°C
General Data	**Unit**	**Value**	
Operation Mode	-	QCW	QCW
Pulse Width	μs	200	200
Duty Cycle	%	0.4	0.4
Bar Pitch	mm	0.73	0.73
Optical Data			
Centroid Wavelength	nm	808	796/806
Wavelength Tolerance	nm	± 3	± 2
Output Power per Bar	W	150	200
Number of Bars	-	20	20
Spectral Width FWHM	nm	≤ 4	≤ 4
Spectral Width 90% Energy	nm	≤ 6	≤ 6
Fast Axis Divergence (FWHM)	°	35 (typical)	35 (typical)
Fast Axis Divergence with FAC	°	≤ 5°	≤ 5°
Slow Axis Divergence (FWHM)	°	8 (typical)	8 (typical)
Polarization Mode	-	TE	TE
Wavelength Temp. Coefficient	nm / °C	~ 0.28	~ 0.28
Electrical Data			
Operation Current	A	≤ 180	≤ 230
Threshold Current	A	≤ 40	≤ 40
Operating Voltage per Bar	V	≤ 2	≤ 2
Slope Efficiency per Bar	W / A	≥ 1	≥ 1
Power Conversion Efficiency	%	≥ 45	≥ 50
Thermal Data			
Operating Temperature	°C	-45 ~ 60	-45 ~ 60
Storage Temperature [3]	°C	-55 ~ 85	-55 ~ 85

[1] Part No. = Brand Code - Series - Power - Centroid Wavelength - Variant Code.

[2] Reduced lifetime if used above nominal operating conditions.

[3] A non-condensing environment is required for storage and operation below ambient dew level.

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