Conduction Cooled QCW Vertical Stack Diode Laser

GS05 Series

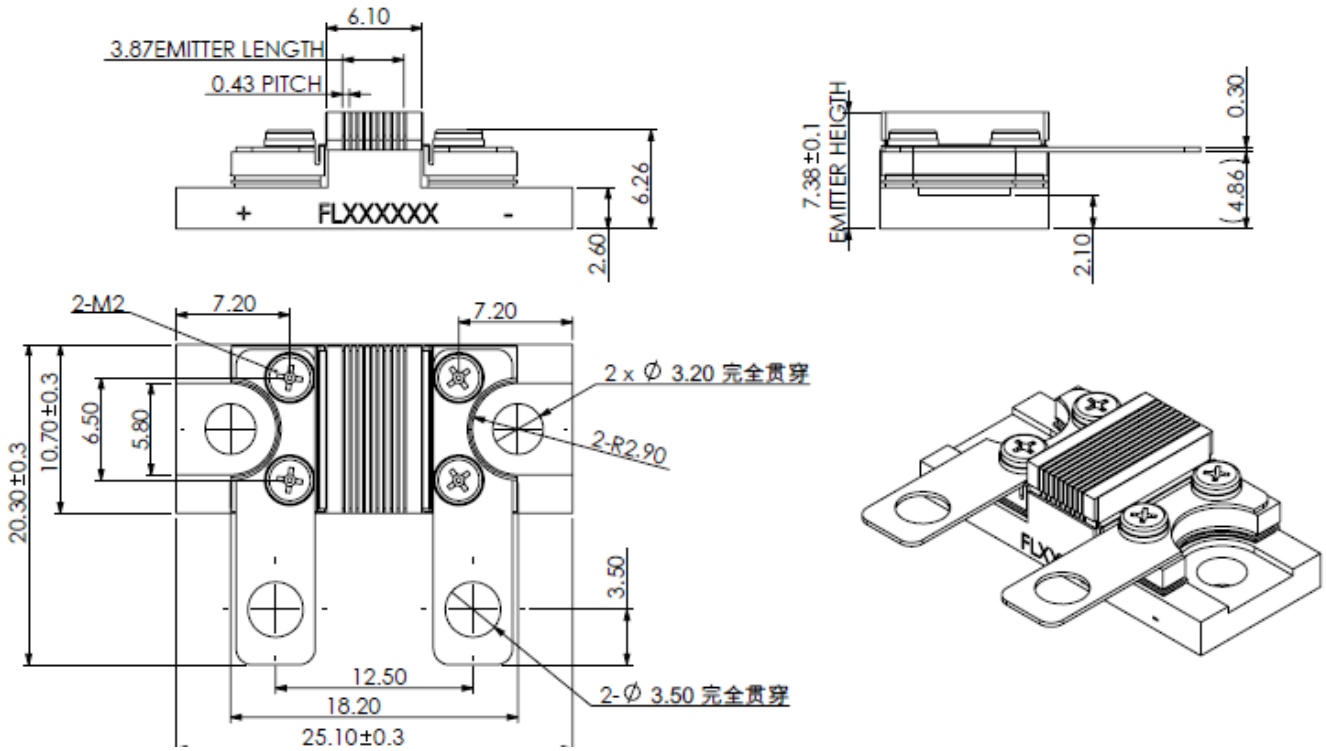
Features

- 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.

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Product Specifications

Product Code		GST000011	GST000012
Part No. [1]		FL-GS05-10X1-1000-808(Q)	FL-GS05-6X1-600-808(Q)
General Data	**Unit**	**Value**	
Operation Mode	-	QCW	QCW
Pulse Width	μs	300	300
Duty Cycle	%	0.6	0.6
Bar Pitch	mm	0.43	0.43
Optical Data[3]			
Centroid Wavelength	nm	808	808
Wavelength Tolerance	nm	± 2	± 2
Output Power per Bar	W	100	100
Number of Bars	-	10	6
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 [3]			
Operation Current	A	≤ 120	≤ 120
Threshold Current	A	≤ 40	≤ 40
Operating Voltage per Bar	V	≤ 2	≤ 2
Slope Efficiency per Bar	W / A	≥ 1	≥ 1
Power Conversion Efficiency	%	≥ 50	≥ 50
Thermal Data			
Operating Temperature	°C	-45 ~ 60	-45 ~ 60
Storage Temperature [4]	°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] Data at 25°C unless otherwise stated.
[4] A non-condensing environment is required for storage and operation below ambient dew level.

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