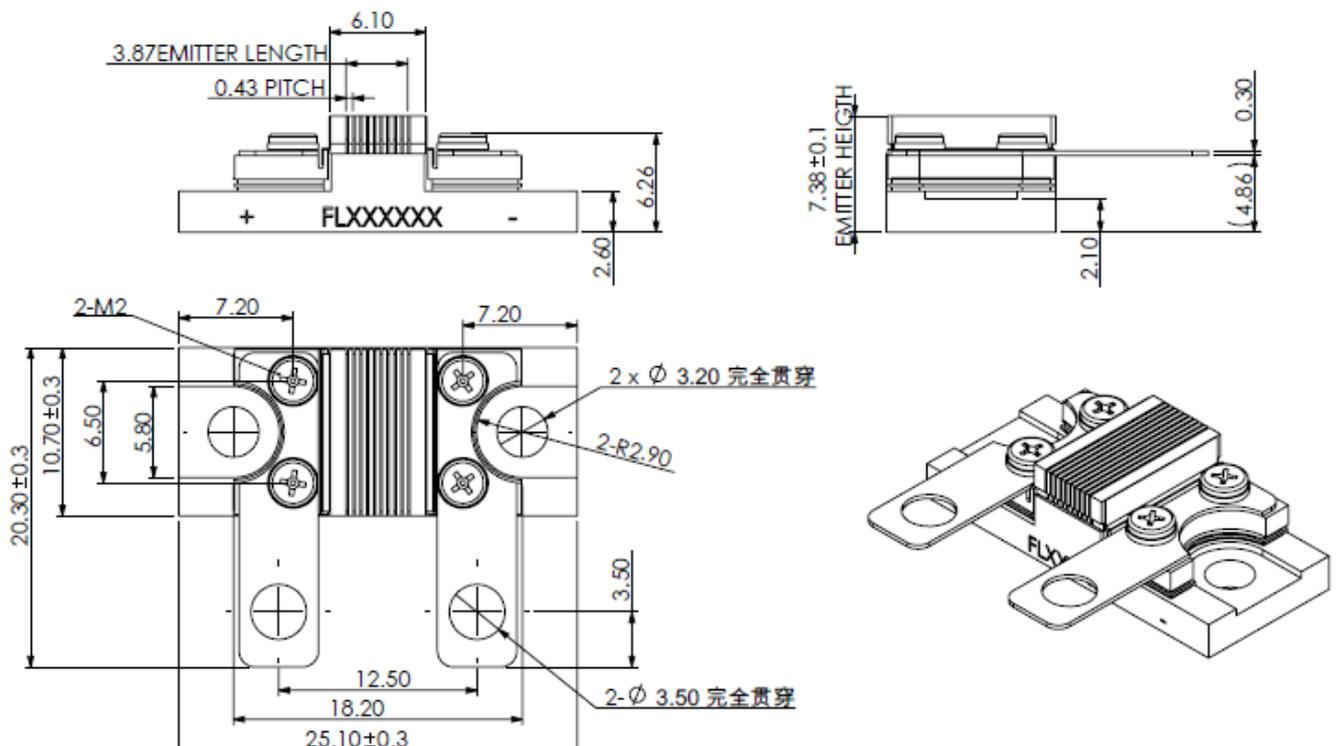


Conduction Cooled QCW Vertical Stack Diode Laser GS05 Series

	<p>Features</p> <ul style="list-style-type: none"> • AuSn Bonding • High reliability • Narrow spectrum • High peak power • High temperature application • Compact Size 	<p>Applications</p> <ul style="list-style-type: none"> • Pumping • Illumination • Industry • Research
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Product Dimensions (mm)



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

Product Specifications

Product Code	GST300166¹
Part No. ²	FL-GS05-10X1-2500-807(Q)

General Data ³	Unit	
Operation Mode	-	QCW
Pulse Width	µs	200
Duty Cycle	%	1
Bar Pitch	mm	0.43

Optical Data ⁴		
Centroid Wavelength	nm	807
Wavelength Tolerance	nm	± 2
Output Power per Bar	W	250
Number of Bars	-	10
Spectral Width FWHM	nm	≤ 4
Spectral Width 90% Energy	nm	≤ 6
Fast Axis Divergence (FWHM)	°	35 (typical)
Slow Axis Divergence (FWHM)	°	8 (typical)
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm / °C	~ 0.28

Electrical Data ⁴		
Operation Current	A	≤ 260
Threshold Current	A	≤ 40
Operating Voltage per Bar	V	≤ 2
Slope Efficiency per Bar	W / A	≥ 1
Power Conversion Efficiency	%	≥ 50

Thermal Data		
Operating Temperature	°C	-45 ~ 60
Storage Temperature ⁵	°C	-55 ~ 85

¹ Typical customization of products.

² Part No. = Brand Code - Series - Power - Centroid Wavelength - Variant Code.

³ Reduced lifetime if used above nominal operating conditions.

⁴ Data at 25°C unless otherwise stated.

⁵ A non-condensing environment is required for storage and operation below ambient dew level.

