Conduction Cooled QCW Vertical Stack Diode Laser

GS04 Series

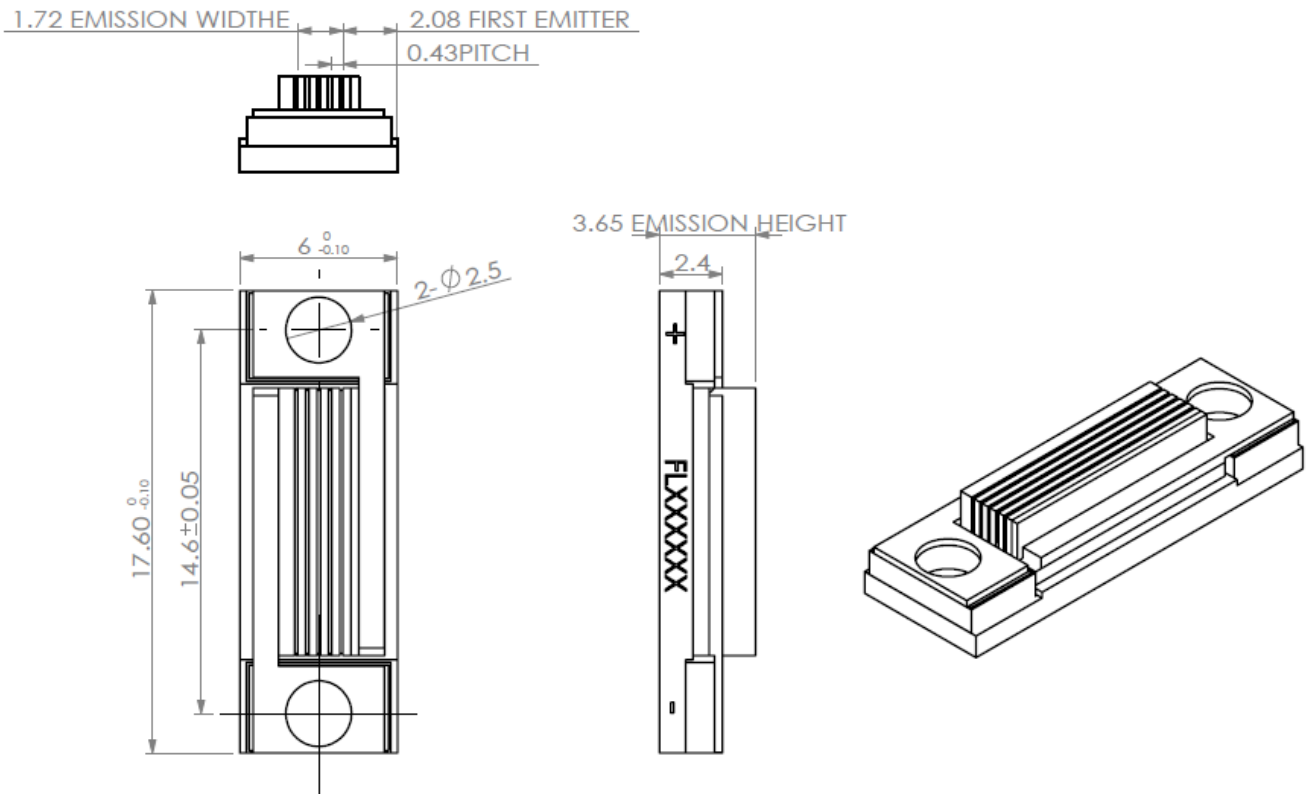
Features

- 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	**GST000010**
Part No. [1]	FL-GS04-5X1-750-808-(Q)

General Data	**Unit**	**Value**
Operation Mode	-	QCW
Pulse Width	μs	250
Duty Cycle	%	0.5
Bar Pitch	mm	0.43
Optical Data[3]		
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 3
Output Power per Bar	W	170
Number of Bars	-	5
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 [3]		
Operation Current	A	≤ 200
Threshold Current	A	≤ 40
Operating Voltage per Bar	V	≤ 2
Slope Efficiency per Bar	W / A	≥ 1
Power Conversion Efficiency	%	≥ 45
Thermal Data		
Operating Temperature	°C	-45 ~ 75
Storage Temperature [4]	°C	-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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