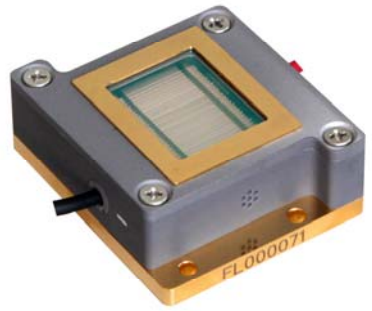
Conduction Cooled QCW Vertical Stack Diode Laser (G-Stack)-GS02



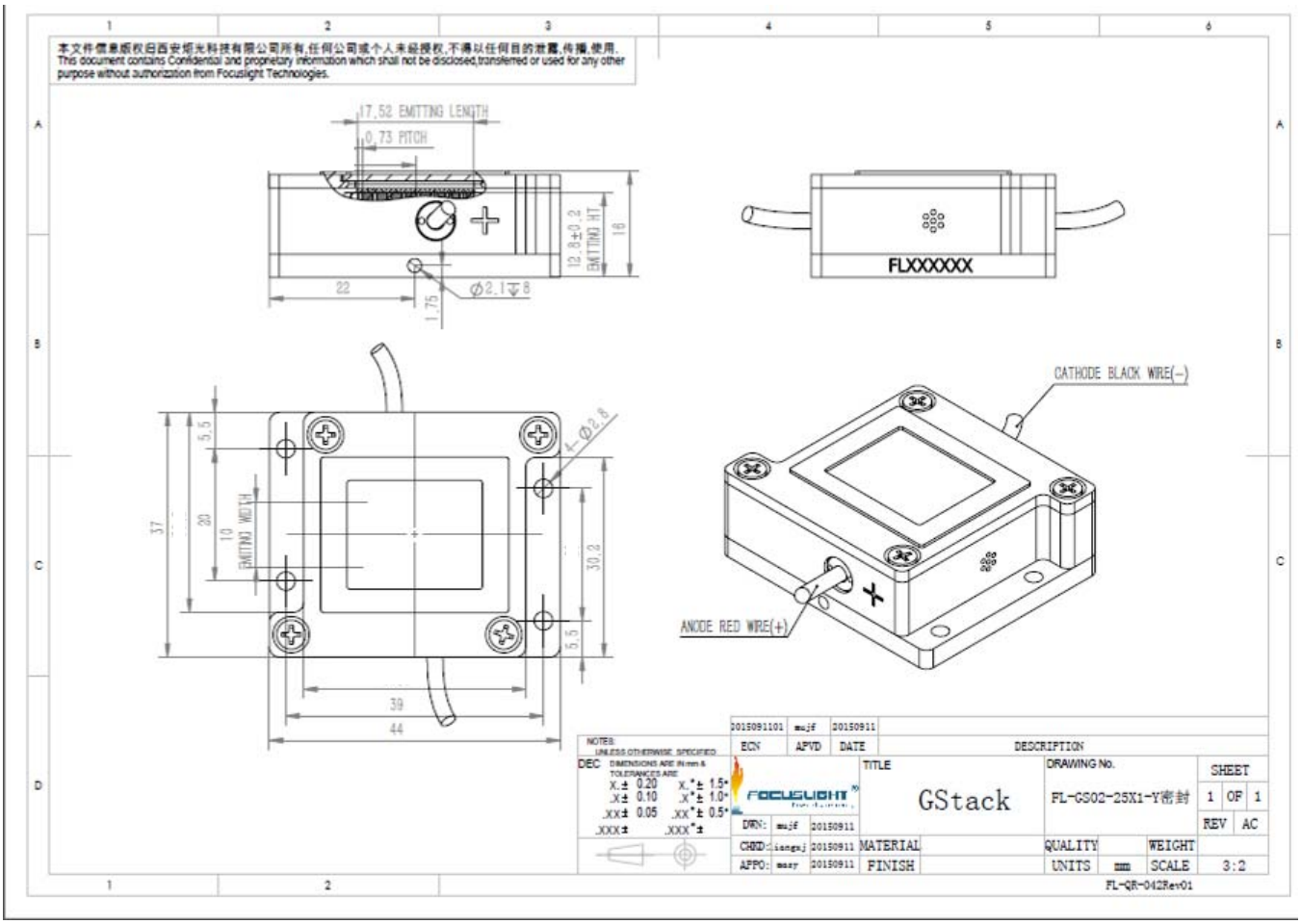
Features

- AuSn Bonding
- High reliability
- High temperature application
- High power
- Standard product

Applications

- Pumping
- Illumination
- Industry
- Research

Device Dimension (mm)



Specification

Module Type [1]	Units	FL-GS02-NX1-XXX-808(Q)
Operation Mode		QCW
Frequency	Hz	≤250
Duty Cycle	%	≤1
Bar Pitch	mm	0.73（0.43、1.13 optional）
Expected Lifetime	shots	$1X10^9$
Optical Parameters[3,5]		
Center Wavelength λ	nm	808
Wavelength Tolerance	nm	±3
Output Power/bar	W	≤300
Number of Bars	-	1~25
Spectral Width FWHM	nm	≤5
Spectral Width FW90%E	nm	≤8
Fast Axis Divergence(FWHM)	°	35（typical）
Fast Axis Divergence(FWHM) with FAC	°	≤5
Slow Axis Divergence (FWHM)	°	8（typical）
Polarization Mode	-	TE/TM
Wavelength Temp. Coefficient	nm/℃	~0.28
Electrical Parameters [3,5]		
Operating Current I_{op}	A	≤330
Threshold Current I_{th}	A	≤40
Operating Voltage/bar V_{op}	V	≤2
Slope Efficiency/bar	W/A	≥1
Power Conversion Efficiency	%	≥50
Ambient Parameters		
Operating Temperature	℃	-45 ~ 60
Storage Temperature[4]	℃	-55 ~ 85

[1]Explanation for the name of Module Type：FL(abbreviation of Focuslight) –GSxx (structure code) –N (Number of Bars) -X(Power) -#(center wavelength)(Q:QCW).
[2]Reduced lifetime if used above nominal operating conditions.
[3]Data at 25°C temperature, unless otherwise stated.
[4]A non-condensing environment is required for storage and operation below ambient dew point.
[5]If there are any other requirements, please contact us.

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