

Conduction Cooled QCW Vertical Stack Diode Laser (G-Stack)-AA05



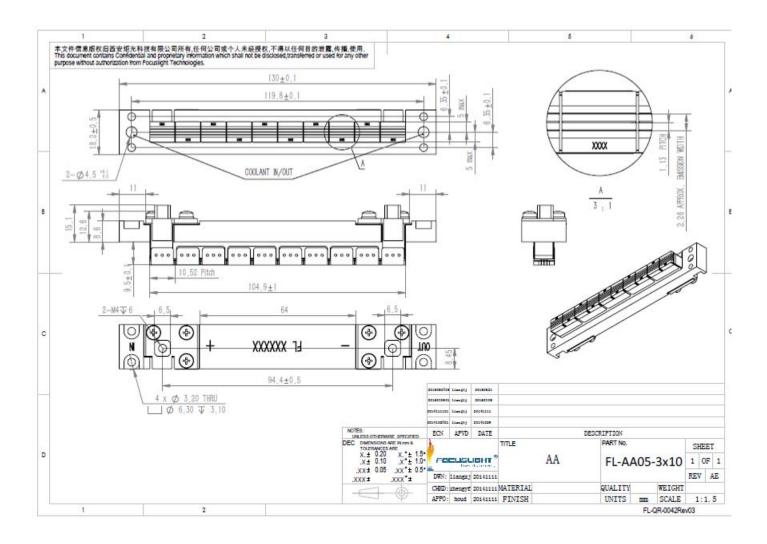
Features

- AuSn Bonding
- High duty cycle
- Tap water cooling
- High power
- High reliability
- Narrow spectrum

Applications

- Pumping
- Illumination
- Industry
- Research

Device Dimension (mm)



Specification

Module Type ¹	Units	FL-AA05-3X10-XXX-808(Q)
Operation Mode		QCW
Pulse Width	ms	≤3
Duty Cycle	%	≤10
Bar Pitch	mm	1.13
Water flow	L/min	≥1.5
Expected Lifetime	shots	1X10 ⁹
Optical Parameters ^{3,5}		
Center Wavelength λ	nm	808
Wavelength Tolerance	nm	±3
Output Power/bar	W	≤200
Number of Bars	-	30
Spectral Width FWHM	nm	≪4
Spectral Width FW90%E	nm	≪6
Fast Axis Divergence(FWHM)	o	35 (typical)
Slow Axis Divergence (FWHM)	o	8 (typical)
Polarization Mode	-	TE/TM
Wavelength Temp. Coefficient	nm/ ℃	~0.28
Wavelength Current Coefficient	nm/A	≪0.03
Electrical Parameters ^{3,5}		
Operating Current Iop	А	≤230
Threshold Current I _{th}	А	≪40
Operating Voltage/bar V_{op}	V	≤2
Slope Efficiency/bar	W/A	≥1.1
Power Conversion Efficiency	%	≥50
Ambient Parameters		
Operating Temperature	°C	20~25
Storage Temperature ⁴	°C	-55 ~ 85
Ambient Parameters	°C	5-35

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –GSxx (structure code) –N (Number of Bars) -X(Power) -#(center wavelength)(Q:QCW).

²Reduced lifetime if used above nominal operating conditions.

 $^{3}\mbox{Data}$ at 25°C temperature, unless otherwise stated.

⁴A non-condensing environment is required for storage and operation below ambient dew point.

⁵If there are any other requirements, please contact us.

FOCUSLIGHT



Focuslight Technologies Co,. Ltd.

Add: No.56 Zhangba 6th Road, High-Tech Zone, Xi'an, Shaanxi 710077, P.R. China Tel: +86-29 8956 00050 Fax: +86-29 8177 5810 Email: <u>sales@focuslight.com.cn</u> Website: <u>www.focuslight.com.cn</u>

Copyright ©2009 Focuslight. All rights reserved.

