

# **Conduction Cooled QCW Vertical Stack Diode Laser**

## AA05 Series



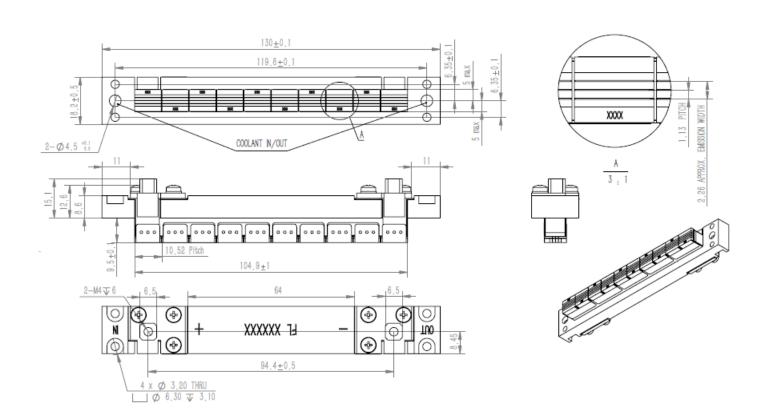
#### **Features**

- 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.



### **Product Specifications**

Product Code		GST000002	GST000003
Part No. <sup>1</sup>		FL-AA05-3x10-6000-807(Q)	FL-AA05-3x8-4800-808(Q)
General Data	Unit	Value	Value
Operation Mode	-	QCW	QCW
Pulse Width	μs	330	250
Duty Cycle	μ3 %	6.6	5
Bar Pitch	mm	1.13	1.13
Dai Fitcii	111111	1.13	1.15
Optical Data <sup>3</sup>			
Centroid Wavelength	nm	807	808
Wavelength Tolerance	nm	± 2	± 3
Output Power per Bar	W	200	200
Number of Bars	-	30	24
Spectral Width FWHM	nm	≤ 4	≤ 5
Spectral Width 90% Energy	nm	≤ 6	≤ 7
Fast Axis Divergence (FWHM)	0	35 (typical)	35 (typical)
Slow Axis Divergence (FWHM)	0	8 (typical)	8 (typical)
Polarization Mode	-	TE	TE
Wavelength Temp. Coefficient	nm /°C	~ 0.28	~ 0.28
Flootwicel Date 3			
Electrical Data <sup>3</sup>	Δ.	. 070	. 070
Operation Current	A	≤ 230	≤ 230
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	18 ~ 25	18 ~ 25
Storage Temperature <sup>4</sup>	°C	-55 ~ 85	-55 ~ 85

<sup>&</sup>lt;sup>1</sup>Part No. = Brand Code - Series - Power - Centroid Wavelength - Variant Code.

<sup>&</sup>lt;sup>4</sup> A non-condensing environment is required for storage and operation below ambient dew level.



<sup>&</sup>lt;sup>2</sup> Reduced lifetime if used above nominal operating conditions.

<sup>&</sup>lt;sup>3</sup> Data at 25°C unless otherwise stated.