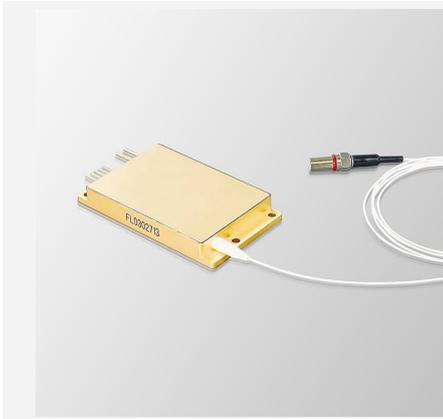


High Power Fiber Coupled Diode Laser

E7 Series



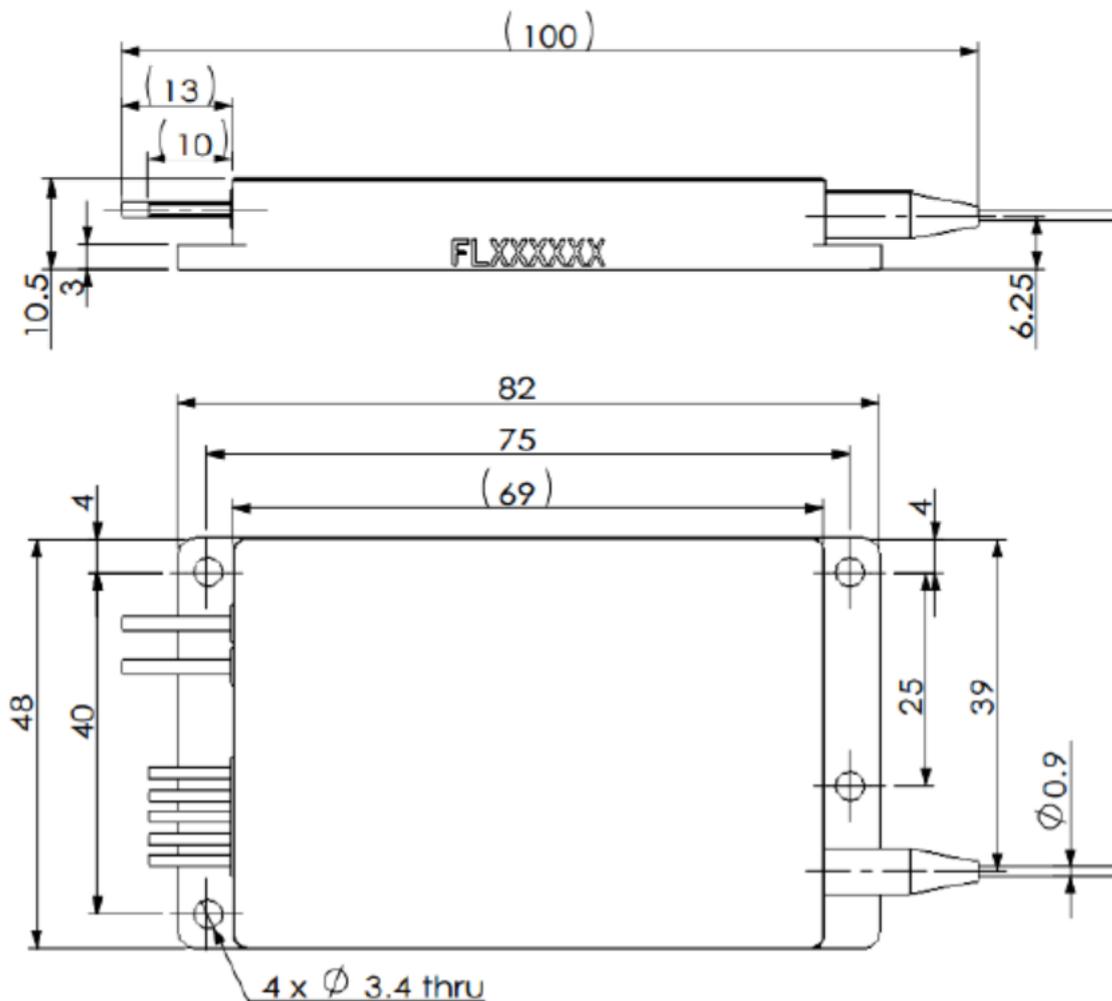
Features

- High brightness
- High power
- Compact housing
- Hermetically sealed housing
- Conduction Cooling

Applications

- Advanced Manufacturing
- Health
- Information Technology
- Scientific 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	FCE000002
Part No. ¹	FL-E7-65-938-105

Optical Data	Unit	
CW/QCW-nominal output power	W	65
Centroid wavelength	nm	938
Wavelength tolerance (\pm)	nm	5
Spectral width (FWHM)	nm	≤ 6
Wavelength Temp. drift	nm/°C	~ 0.33
Wavelength stabilization		/

Fiber connection		
Fiber included		Yes
Fiber core diameter	μm	105
Numerical aperture		0.22
Fiber optic connector ²		SMA905(SF)
Fiber length	m	1.5 \pm 0.1

Operation Conditions		
Nominal diode heat sink Temp.	°C	25
Diode heat sink operation Temp. ³	°C	+20 ... +30
Minimum heat sink capacity	W	130

Electrical Data		
Max. operation current start of life	A	≤ 11.5
Typical threshold current	A	≤ 0.7
Typical operation voltage	V	≤ 14
Typical slope	W/A	≥ 5.6
Typical E/O efficiency	%	≥ 49

Package		
Dimensions	mm ³	100 \times 48 \times 10.5
Weight basic package	kg	0.16 \pm 0.05
Storage Temp.	°C	-20 ... +80

Additional Features		
Temp. sensors		NTC(10k Ω @25°C)
Monitor diode (driver: 9V)	mA	0.2 ... 1

Measurement		
Fiber		AR coated, 105 μm
Diode heat sink Temp.	°C	25

¹ Part No. = Brand Code - Series - Power - Centroid Wavelength - Fiber core diameter.

² SF: flat end.

³ Operation beyond recommended temperature may cause lifetime reduction or even damage to the product.

