High Power Fiber Coupled Diode Laser

E7 Series

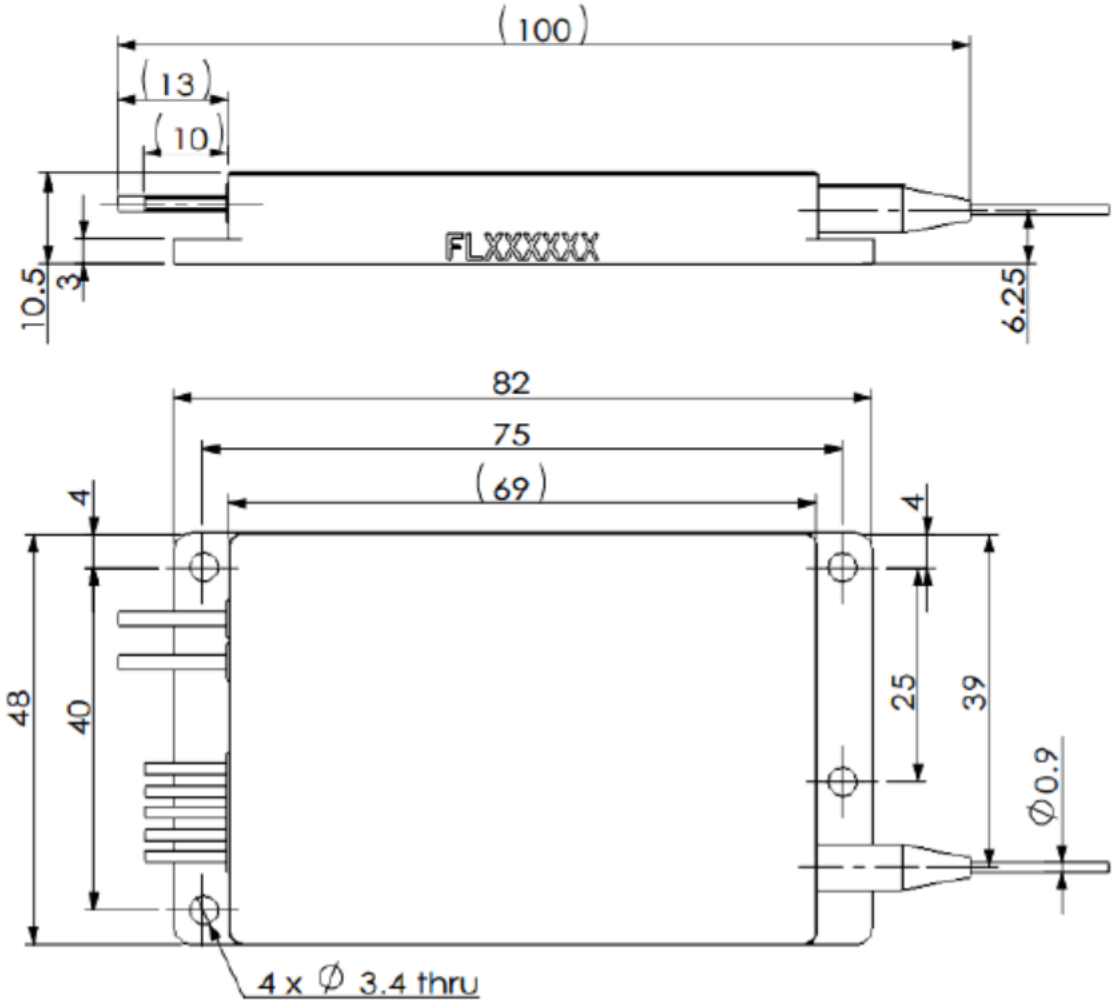
Features

- 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.

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Product Specifications

Product Code		FCE300003 [2]	FCE000002	FCE300032 [2]
Part No. [1]		FL-E7-65-976-105	FL-E7-65-938-105	FL-E7-15-780-200
Optical Data	**Unit**	**Value**		
CW/QCW-nominal output power	W	65	65	15
Centroid wavelength	nm	976	938	780
Wavelength tolerance (±)	nm	10	5	5
Spectral width (FWHM)	nm	≤6	≤6	≤6
Wavelength Temp. drift	nm/°C	~0.33	~0.33	~0.28
Wavelength stabilization		/	/	/
Fiber connection				
Fiber included		Yes	Yes	Yes
Fiber core diameter	µm	105	105	200
Numerical aperture		0.22	0.22	0.22
Fiber optic connector		SMA905	SMA905	SMA905
Fiber length	m	1.5±0.1	1.5±0.1	1.5±0.1
Operation Conditions				
Nominal diode heat sink Temp.	°C	25	25	25
Diode heat sink operation Temp.[3]	°C	+20 … +30	+20 … +30	+20 … +30
Minimum heat sink capacity	W	130	130	75
Electrical Data				
Max. operation current start of life	A	11.5	11.5	3
Typical threshold current	A	0.7	0.7	0.8
Typical operation voltage	V	14	14	14
Typical slope	W/A	≥5.6	≥5.6	/
Typical E/O efficiency	%	≥49	≥49	≥43
Package				
Dimensions	mm^3	100×48×10.5	100×48×10.5	100×48×10.5
Weight basic package	kg	0.16±0.05	0.16±0.05	0.16±0.05
Storage Temp.	°C	-20 … +80	-20 … +80	-20 … +80
Additional Features				
Temp. sensors		NTC(10kΩ@25°C)	NTC(10kΩ@25°C)	NTC(10kΩ@25°C)
Monitor diode (driver: 9V)	mA	0.2 … 1	0.2 … 1	0.2 … 1
Measurement				
Fiber		AR coated, 105µm	AR coated, 105µm	AR coated, 200µm
Diode heat sink Temp.	°C	25	25	25

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

[2] Typical customization of products.

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

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