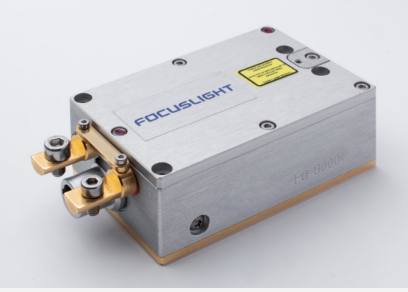
High Power Fiber Coupled Diode Laser

FQ Series



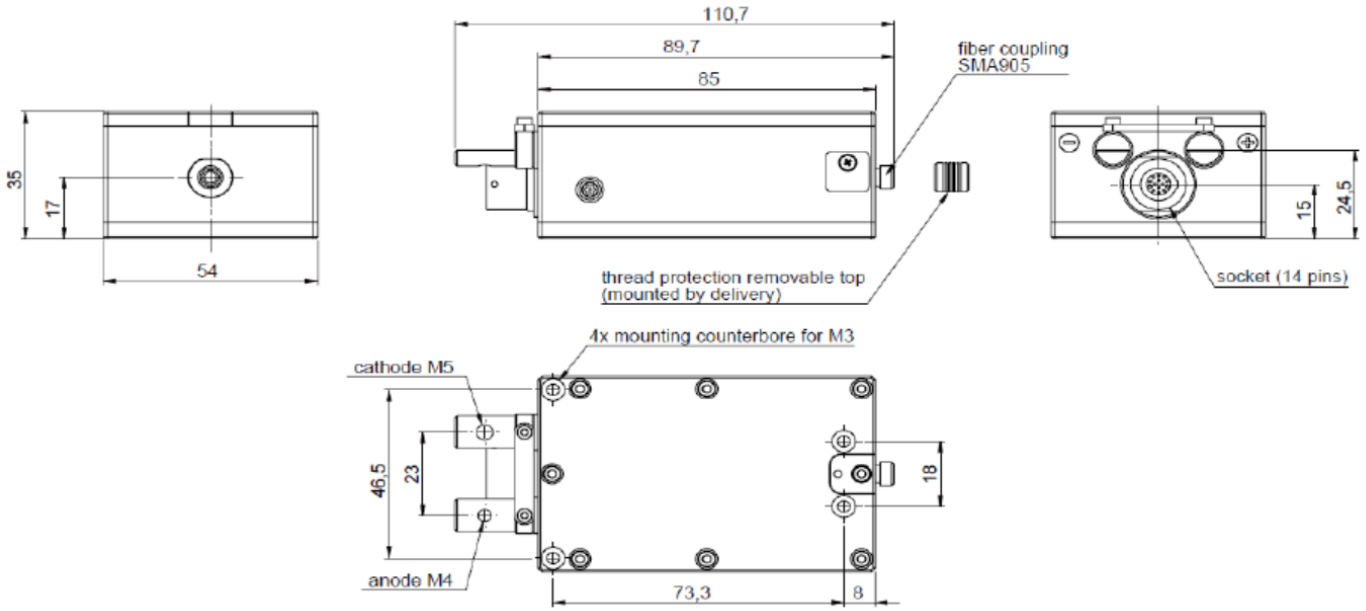
Features

- High brightness
- High E/O efficiency
- Compact housing
- Hermetically sealed housing
- Conduction Cooling
- Plug and play fiber connector

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		FCS000003[2]	FCS000002[2]
Part No. [1]		FL-FQ1081-32-808-400	FL-FQ1083-40-808-400
Optical Data	**Unit**	**Value**	**Value**
CW-nominal output power	W	32	40
Centroid wavelength	nm	808	808
Wavelength tolerance (±)	nm	10	10
Spectral width (FWHM)	nm	5	5
Wavelength Temp. drift	nm/°C	~ 0.28	~ 0.28
Wavelength stabilization		/	/
Operation Conditions			
Nominal diode heat sink Temp.	°C	25	25
Diode heat sink operation Temp.[3]	°C	+15 ... +30	+15 ... +30
Minimum heat sink capacity	W	90	90
Electrical Data			
Max. operation current start of life	A	46	54
Max. operation current end of life	A	55	65
Typical threshold current	A	8	8
Typical operation voltage	V	2	2
Typical slope	W/A	0.9	0.9
Typical E/O efficiency	%	41	41
Fiber connection			
Fiber included		/	/
Fiber core diameter	µm	400	400
Numerical aperture		0.22	0.22
Fiber optic connector		SMA905	SMA905
Package			
Dimensions	mm^3	110.7×54×35	110.7×54×35
Weight basic package	kg	0.6	0.6
Storage Temp.	°C	-20 ... +60	-20 ... +60
Additional Features			
Temp. sensors		NTC & Pt100	NTC & Pt100
Monitor diode (driver: 5V)		2pcs, 0-2.5V	2pcs, 0-2.5V
Pilot beam (driver: 5V, 40mA)		1mW, 635±20nm	1mW, 635±20nm
Fiber Detection Sensor (PNP) (voltage: 12V)		2pcs, current: ≤100mA	2pcs, current: ≤100mA
Exchangeable protection window		Yes	Yes
Measurement			
Fiber		non AR coated, 400µm	non AR coated, 400µm
Diode heat sink Temp.	°C	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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