High Power Fiber Coupled Diode Laser

FCSE08 Series

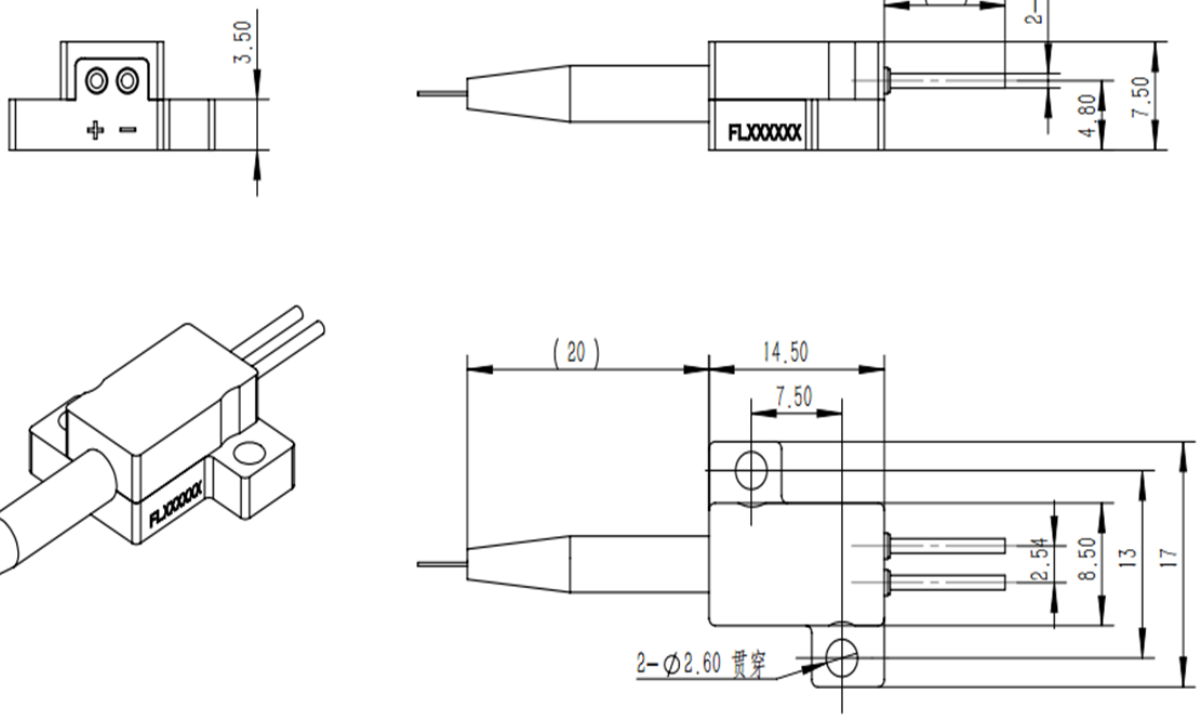
Features

- 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		FCE000026	FCE000028	FCE000029	FCE000033
Part No. [1]		FL-FCSE08-7-808-200	FL-FCSE08-8-915-105	FL-FCSE08-8-940-105	FL-FCSE08-8-976-105
Optical Data	**Unit**	**Value**			
CW-nominal output power	W	7	8	8	8
Centroid wavelength	nm	808	915	940	976
Wavelength tolerance (±)	nm	3	5	5	10
Spectral width (FWHM)	nm	≤3	≤4	≤4	≤4
Wavelength Temp. drift	nm/°C	~ 0.28	~ 0.32	~ 0.33	~ 0.34
Feedback Protection(1040nm-1100nm)	dB	/	30	30	30
Fiber connection					
Fiber included		Yes	Yes	Yes	Yes
Fiber core diameter	μm	200	105	105	105
Numerical aperture		0.22	0.15	0.15	0.15
Fiber optic connector [2]		SMA905(SF 8°)	SMA905(SF 8°)	SMA905(SF 8°)	SMA905(SF)
Fiber length	m	1.5±0.1	1.5±0.1	1.5±0.1	1.5±0.1
Operation Conditions					
Nominal diode heat sink Temp.	°C	25	25	25	25
Diode heat sink operation Temp. [3]	°C	+20 ... +30	+20 ... +30	+20 ... +30	+20 ... +30
Minimum heat sink capacity	W	20	25	25	25
Electrical Data					
Max. operation current start of life	A	≤9.2	≤10	≤10	≤11
Typical threshold current	A	≤1.8	≤0.9	≤0.8	≤0.8
Typical operation voltage	V	≤2.2	≤2	≤2	≤2
Typical slope	W/A	≥0.9	≥0.65	≥0.8	≥0.6
Typical E/O efficiency	%	≥40	≥40	≥40	≥43
Package					
Dimensions	mm^3	44.5 × 17 × 7.5	44.5 × 17 × 7.5	44.5 × 17 × 7.5	44.5 × 17 × 7.5
Weight basic package	g	15	15	15	15
Storage Temp.	°C	-20 ... +80	-20 ... +80	-20 ... +80	-20 ... +80
Measurement					
Fiber		AR coated, 200μm	AR coated, 105μm	AR coated, 105μm	AR coated, 105μm
Diode heat sink Temp.	°C	25	25	25	25

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

[2] SF 8°: Flat end 8°.

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

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