

High Power Fiber Coupled Diode Laser LM Series (With PD, without Pilot Beam)



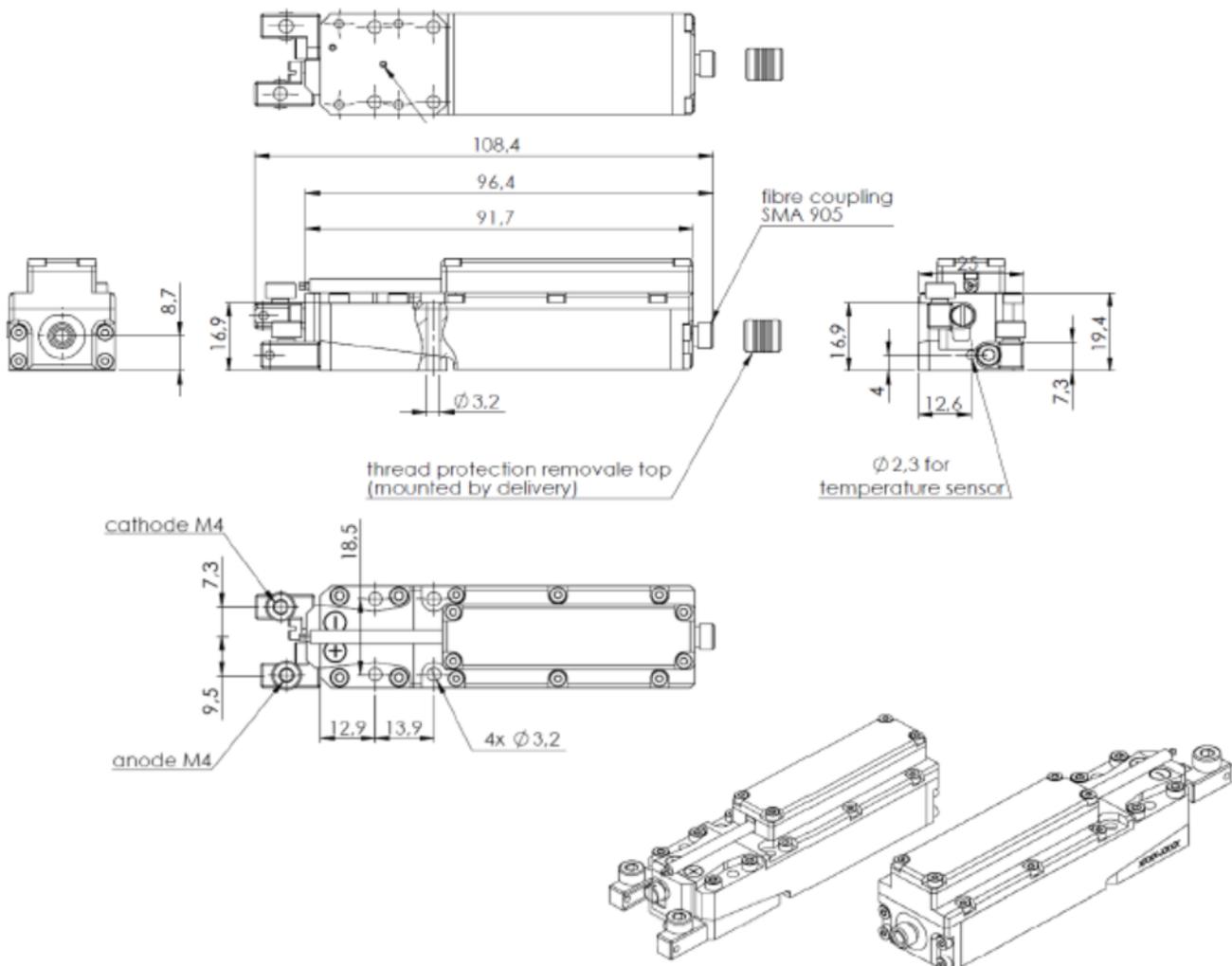
Features

- 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.

Product Specifications

Product Code	FCS000009 ²		FCS000008 ²		FCS000011 ²	
Part No. ¹	FL-LM2002-15-976-200		FL-LM2001-20-981-200		FL-LM2012-55-976-200	
Optical Data	Unit	Value	Value	Value	Value	Value
CW-nominal output power	W	15	20	20	55	55
Centroid wavelength	nm	976	981	981	976	976
Wavelength tolerance (±)	nm	1	1	1	1	1
Spectral width (FWHM)	nm	1	1	1	1	1
Wavelength Temp. drift	nm/°C	~0.01	~0.01	~0.01	~0.01	~0.01
Wavelength stabilization		Yes	Yes	Yes	Yes	Yes
Operation Conditions						
Nominal diode heat sink Temp.	°C	25	25	25	25	25
Diode heat sink operation Temp. ³	°C	+15 ... +30	+15 ... +30	+15 ... +30	+15 ... +30	+15 ... +30
Minimum heat sink capacity	W	50	70	70	130	130
Electrical Data						
Max. operation current start of life	A	30	40	40	85	85
Max. operation current end of life	A	36	50	50	102	102
Typical threshold current	A	6	6	6	8	8
Typical operation voltage	V	2	2	2	2	2
Typical slope	W/A	0.7	0.8	0.8	0.7	0.7
Typical E/O efficiency	%	33	33	33	38	38
Fiber connection						
Fiber included		/	/	/	/	/
Fiber core diameter	µm	200	200	200	200	200
Numerical aperture		0.22	0.22	0.22	0.22	0.22
Fiber optic connector		SMA905	SMA905	SMA905	SMA905	SMA905
Fiber length	m	/	/	/	/	/
Package						
Dimensions	mm ³	108.4×25×28	108.4×25×28	108.4×25×28	108.4×25×28	108.4×25×28
Weight basic package	kg	0.35	0.35	0.35	0.35	0.35
Storage Temp.	°C	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60
Additional Features						
High reflection bandwidth (> 99% S&P polarized)	nm	1030 ... 1130	1030 ... 1130	1030 ... 1130	1030 ... 1130	1030 ... 1130
Temp. sensors		NTC & Pt100				
Monitor diode (driver: 5V)		Output signal: 0...2.5V				
Accessories package ⁴		Yes	Yes	Yes	Yes	Yes
Measurement						
Fiber		non AR coated, 200µm				
Diode heat sink Temp.	°C	25	25	25	25	25

¹Part No. = Brand Code - Series - Power - Centroid Wavelength - Fiber Core Diameter.

²Typical customization of products.

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

⁴In the accessory package, the positive and negative electrodes of the "diode" need to be reversely connected to the negative and positive electrodes of the module; The insulation and thermal conductivity of the "carbon film" are very important to the installation and use of the laser, as the housing of the laser is connected to its anode.

