

High Power Fiber Coupled Diode Laser

LM Series (Basic A)



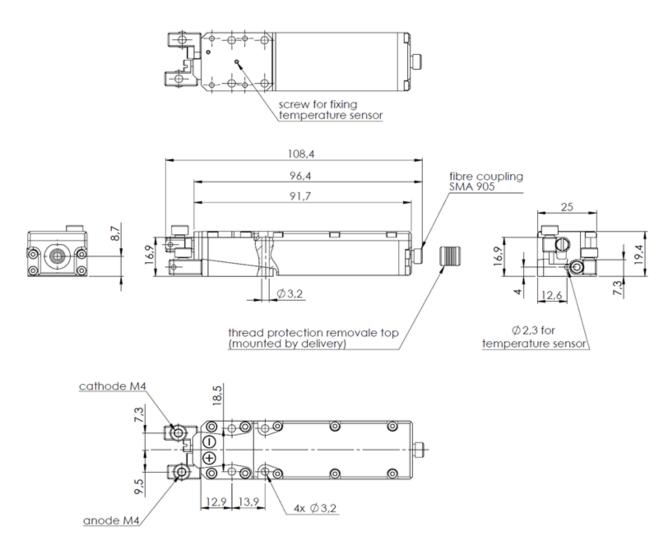
Features

- · 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

duct Code		FCS000012	FCS000010 ²	FCS000007 ²
t No. ¹		FL-LM2024-32-808-400	FL-LM2004-35-976-200	FL-LM1889-40-981-200
ical Data	Unit	Value	Value	Value
-nominal output power	W	32	35	40
troid wavelength	nm	808	976	981
velength tolerance (±)	nm	3	1	1
ctral width (FWHM)	mm	4	1	1
elength Temp. drift	nm/°C	~0.28	~0.01	~0.0
velength stabilization		1	Yes	Yes
eration Conditions				
ninal diode heat sink Temp.	°C	25	25	25
de heat sink operation Temp. ³	°C	+15 +30	+15 +30	+15 +30
imum heat sink capacity	W	60	90	100
etrical Data				
c. operation current start of life	А	43	58	63
c. operation current end of life	А	52	70	76
ical threshold current	А	8	8	8
ical operation voltage	V	2	2	2
ical slope	W/A	0.9	0.7	0.7
ical E/O efficiency	%	44	39	38
er connection				
er included		1	1	Yes
er core diameter	μm	400	200	200
nerical aperture		0.22	0.22	0.22
er optic connector		SMA905	SMA905	SMA905
er length	m	1	1	0.05±0.1
kage				
ensions	mm³	108.4×25×17	108.4×25×17	108.4×25×17
ght basic package	kg	0.3	0.3	0.3
rage Temp.	°C	-20 +60	-20 +60	-20 +60
litional Features				
n reflection bandwidth (> 99% S&P polarized	d) nm	1030 1130	1030 1130	1030 1130
np. sensors		NTC & Pt100	NTC & Pt100	NTC & Pt100
essories package ⁴		Yes	Yes	Yes
asurement				
er		non AR coated, 400µm	non AR coated, 200µm	non AR coated, 200µm
de heat sink Temp.	°C	25	25	25

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

⁴ In 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.



² Typical customization of products.

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



Product Specifications

Product Code		FCS000016 ²	FCS000006 ²
Part No. ¹		FL-LM6001-20-981-200	FL-LM1713-20-981-200
Optical Data	Unit	Value	Value
CW-nominal output power	W	20	20
Centroid wavelength	nm	981	981
Wavelength tolerance (±)	nm	1	1
Spectral width (FWHM)	mm	1	1
Wavelength Temp. drift	nm/°C	~0.01	~0.01
Wavelength stabilization		Yes	Yes
Operation Conditions			
Nominal diode heat sink Temp.	°C	25	28
Diode heat sink operation Temp. ³	°C	+15 +30	+15 +30
Minimum heat sink capacity	W	70	70
Electrical Data			
Max. operation current start of life	Α	40	35
Max. operation current end of life	Α	50	42
Typical threshold current	Α	6	6
Typical operation voltage	V	2	2
Typical slope	W/A	0.8	0.8
Typical E/O efficiency	%	33	33
Fiber connection			
Fiber included		1	Yes
Fiber core diameter	μm	200	200
Numerical aperture		0.22	0.22
Fiber optic connector		SMA905	SMA905
Fiber Length		I	0.05±0.1
Package			
Dimensions	mm³	108.4×25×17	108.4×25×17
Weight basic package	kg	0.3	0.3
Storage Temp.	°C	-20 +60	-20 +60
Additional Features			
High reflection bandwidth (> 99% S&P polarized)	nm	1030 1130	1
Temp. sensors		NTC & Pt100	NTC & Pt100
Accessories package 4		Yes	Yes
Measurement			
Fiber		non AR coated, 200μm	non AR coated, 200µm
Diode heat sink Temp.	°C	25	28

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