

# LIMO40-F400-DL808-S2043

High Power Diode Laser



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## Your product benefits:

- Plug and play fiber connector
- High e/o efficiency
- Hermetically sealed housing
- 100% emitter and fiber incoming inspection
- 100% laser outgoing inspection

| Photonics Solutions |

LIMO laser and optics designed and engineered in Germany

Laser Module	Unit	Value	Unit	Value
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### Optical Data

CW - nominal output power	W	40
Center wavelength	nm	808
Wavelength tolerance (±)	nm	10
Spectral width (FWHM)	nm	5
Wavelength temperature drift	nm/K	0,3

### Fiber Connection Data

Fiber core diameter	μm	400
Numerical aperture		0,22
Fiber - optic connector		SMA
Cladding mode (max)	%	not specified

### Thermal Operation Conditions

Nominal diode heat sink temperature	°C	25
Diode heat sink operation temperature	°C	+15...30
Minimum heat sink capacity	W	80

### Package

Dimensions	mm <sup>3</sup>	111x25x37
Weight basic package	kg	0,35
Storage temperature	°C	-20...+60

### Electrical Data

Max. operation current start of life	A	55
Max. operation current end of life	A	66
Typical threshold current	A	10
Typical operation voltage	V	2
Typical slope	W/A	0,9
Typical O/E efficiency	%	44

Additional Features	Unit	Value	Unit	Value
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### Pilot Beam

Output power (min)	mW	0,7
Wavelength	nm	650
Voltage	V	3,3
Current (max)	mA	25

### Monitor Diode

Operation voltage	V	5
Output signal (min)	V	0
Output signal (max)	V	2,5

### Fiber Detection Sensor (PNP)

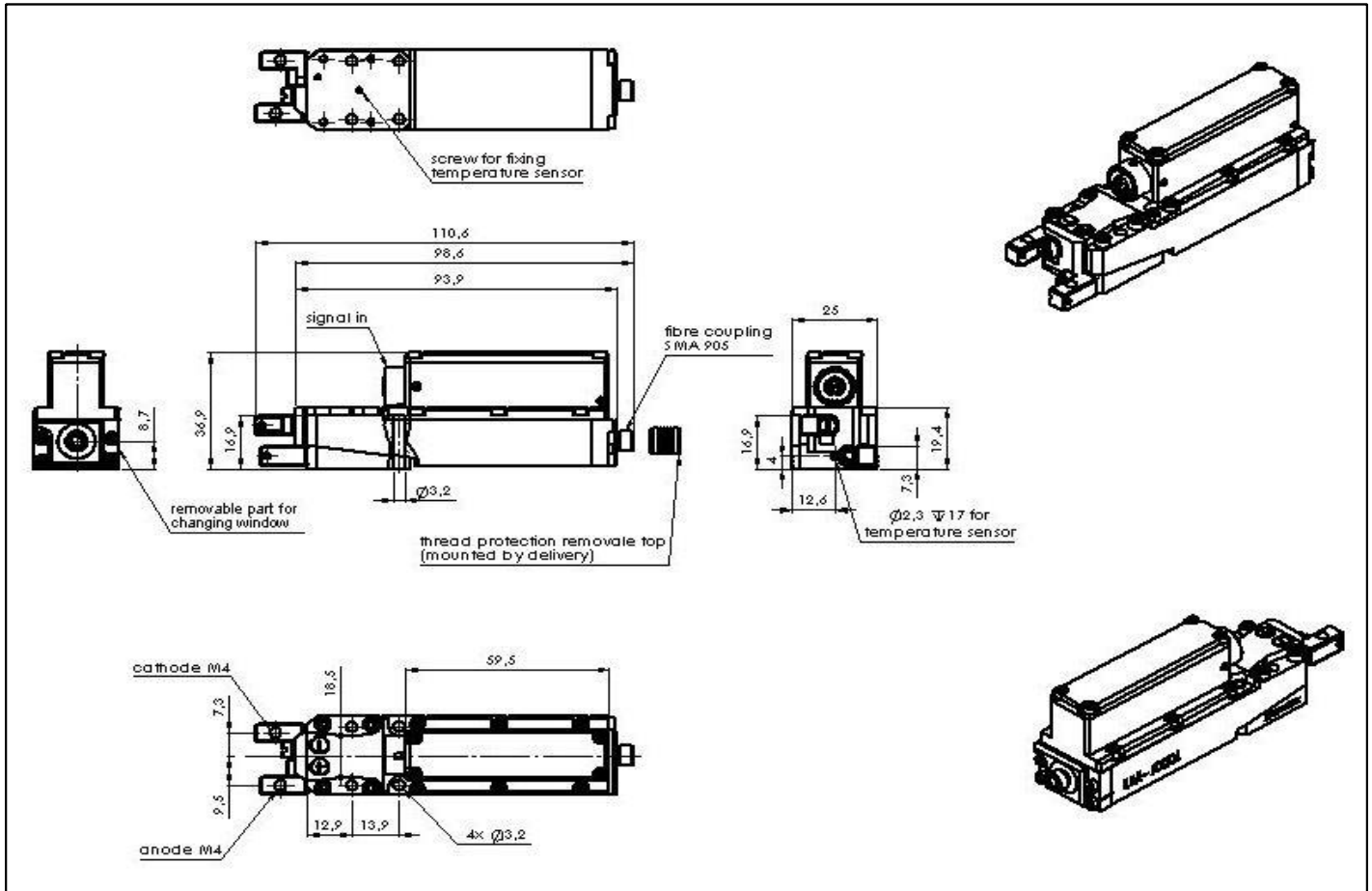
		y
Voltage	V	12
Current (max)	mA	100

### Other Features

Temperature sensors	NTC & PT100
Exchangeable protection window	Yes

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LIMO40-F400-DL808-S2043 prepared for thermoelectric cooling

All data provided are typically measured with a diode heat sink temperature of 25 °C. All measurements are made with a LIMO reference fiber 400 µm, length 1.5 m, and non AR coated.

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