GDL808-50F

Fiber-coupled Diode Laser Module 808nm 50W Fiber 400µm

Features

- High Coupling Efficiency
- High Brightness
- Sealed Housing
- Standard Fiber Coupling (HP-SMA)

Device Specification

Optical[1]	Units	GDL808-50F
Center Wavelength Range[3]	nm	808
Center Wavelength Tolerance	nm	±3
Output Power[2]	W	50
Spectral Width *(FWHM)*	nm	4
Slope Efficiency	W/A	> 0.85
Wavelength Temp. Coefficient	nm/°C	~ 0.27

Fiber Parameters	Units	GDL808-50F
Numerical Aperture	NA	0.22
Fiber Core Diameter	µm	400
Fiber Connector	HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters[1]	Units	GDL808-50F
Power Conversion Efficiency	%	> 40
Threshold Current *(ITH)*	A	< 8
Operating Current *(IOP)*	A	< 70
Operating Voltage *(VOP)*	V	< 1.9

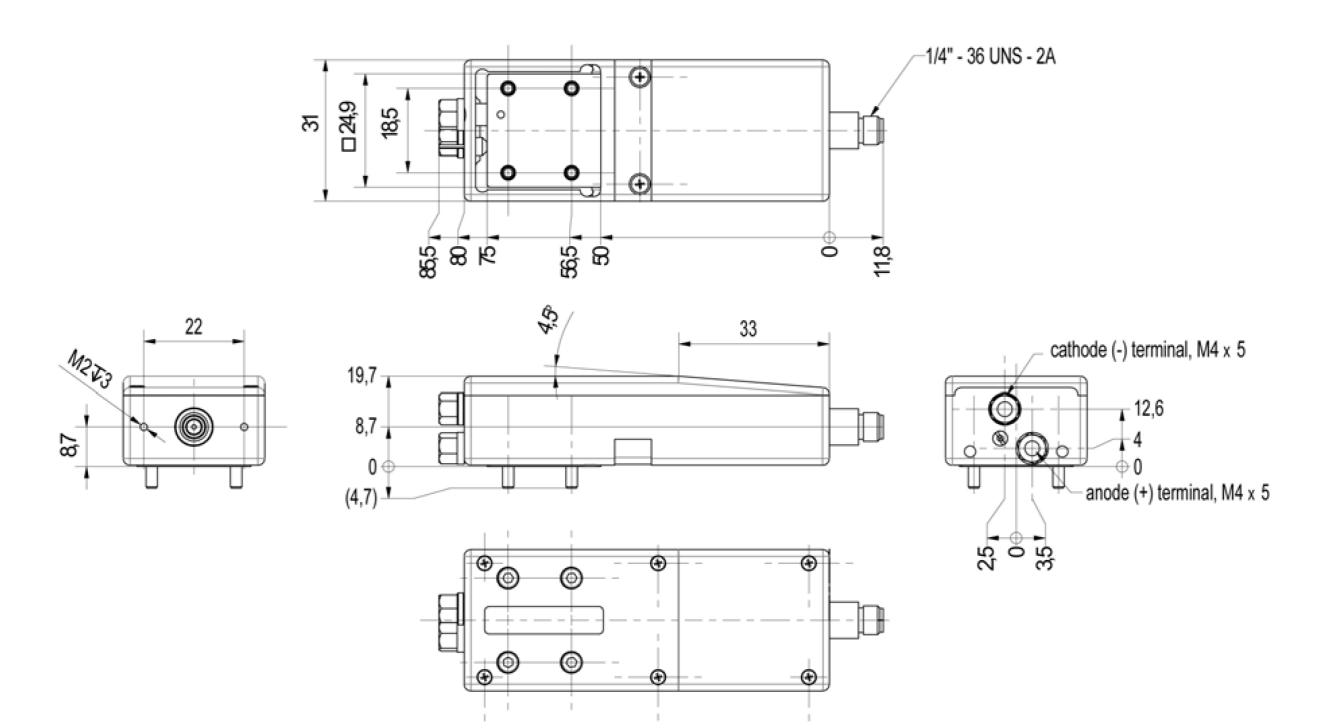
Thermal Parameters	Units	GDL808-50F
Operating Temperature[3, 4]	°C	20 to 35
Storage Temperature4	°C	0 to 55
Recommended Heatsink Capacity	W	> 70

[1] Data at 20°C cold plate temperature, unless otherwise stated.
[2] Reduced lifetime if used above nominal operating conditions.
[3] Others available upon request.
[4] A non-condensing environment is required for storage and operation below the ambient dew point.

Package Dimensions

Package I

(Optional monitor photo diode and temperature sensor/NTC)



Package II

(Includes pointer, monitor photo diode, temperature sensor/NTC and fiber interlock)