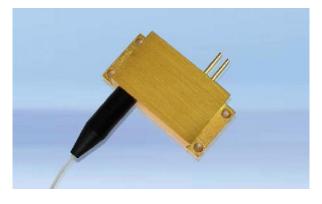


976nm Wavelength Stabilized Diode Laser

By adopting specialized fiber-coupling techniques, the manufactured diode laser modules have a high efficiency, stability and superior beam quality. The modules are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inspection and burn-in procedures guarantee reliability, stability and long lifetime of each modules.



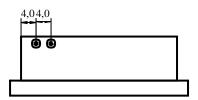
Features

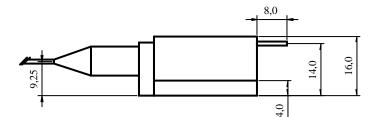
- 27W output power
- 105µm, NA 0.22 optical fiber
- Wavelength stabilized

Applications

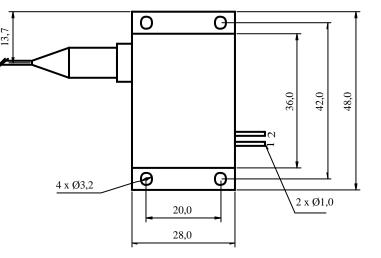
- Fiber laser pumping
- Scientific research

Package Dimension





Pin	Function
1	LD +
2	LD -



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LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT

PHOTONTEC

Specifications

Model	M976±0.5-27-F105/22-T48
Optical parameters	
Output power (W)	27
Central wavelength (nm)	976
Wavelength tolerance (nm)	± 0.5
Spectral width (90%, nm)	<0.5
Wavelength shift - Temp. (nm/°C)	0.02
Wavelength shift - Current (nm/A)	0.05
Locking range (% of full current)	~30 - 100
Feedback protection 1030-1100nm (dB)	>40
Fiber parameters	
Fiber core diameter (µm)	105
Numerical aperture	0.22
Fiber length (m)	1±0.1
Fiber connector (optional)	SMA905
Electric parameters	
Threshold current (A)	0.6
Operating current (A)	9.0
Operating voltage (V)	6.6
Slope efficiency (W/A)	3.3
Power conversion efficiency	48%
Other parameters	
Operating temperature (°C)	25 ± 5 at full power
Operating relative humidity (%)	max. 75
Storage temperature (°C)	-20 - +80
Storage relavtive humidity (%)	max. 90
Soldering temperature (°C)	250 (10s)

Notes: 1. Module specifications and dimension are subject to change without notice.

2. ESD precautions must be taken.

3. The minimum fiber bend diameter should be 300 times greater than the fiber core diameter.

4. Reduced lifetime if improperly used or used above operating conditions.

Compliance with Regulatory Requirements: This industrial laser is an OEM version of a diode laser. As such, it is intended only for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer is responsible for IEC and CDRH certifications of the system that incorporates this industrial laser.

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