PHOTONTEC BERLIN

PRODUCT SPECIFICATIONS

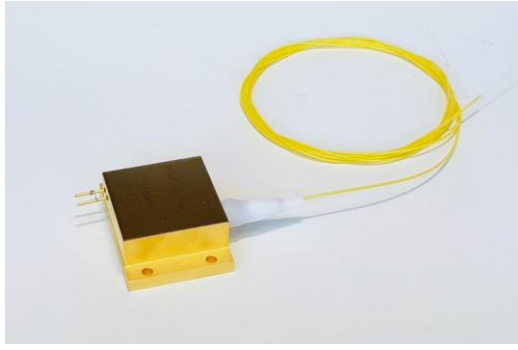
976nm Wavelength Stabilized Laser Diode

Features

- 30W optical CW power
- Narrow linewidth
- 105µm fiber core

Application

- Fiber laser pumping



Model			M976±0.5-30-F105/22-T4M	
Optical	**Unit**	**Min**	**Typical**	**Max**
Output power (exit fiber)	W	28	30	
Central wavelength	nm	975.0	976.0	977.0
Spectral width (FWHM)	nm		≤ 0.5	
Wavelength temp. coefficient	nm/°C		0.02	
Wavelength current coefficient	nm/A		0.05	
Fiber Pigtail				
Core diameter	µm	102	105	108
Cladding diameter	µm	122	125	128
Numerical aperture		0.20	0.22	0.24
Length	m		2	
Electric				
Threshold current	A		0.5	
Operating current	A		9.0	10.0
Operating voltage	V		6.35	6.70
Slope efficiency	W/A		3.6	
Power conversion efficiency	%	50		
Back Reflection Protection				
Wavelength rrange	nm		1030 – 1100	
Attenuation	dB		>40	
Absolute ratings				
Operating temperature (baseplate) *	°C		≤ 30	
Operating humidity	%		< 75	
Storage temperature	°C		-20 – +80	
Soldering pin temperature	°C		250 (10s)	

* Actual operting temperature range depends on optical power level and range for the application.

Compliance with Regulatory Requirements: This industrial laser is an OEM version of a laser diode. 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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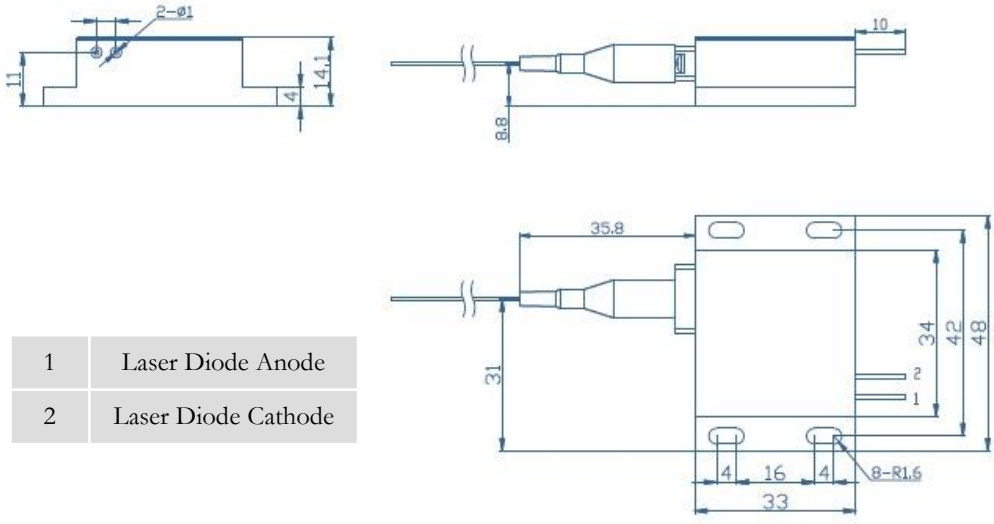
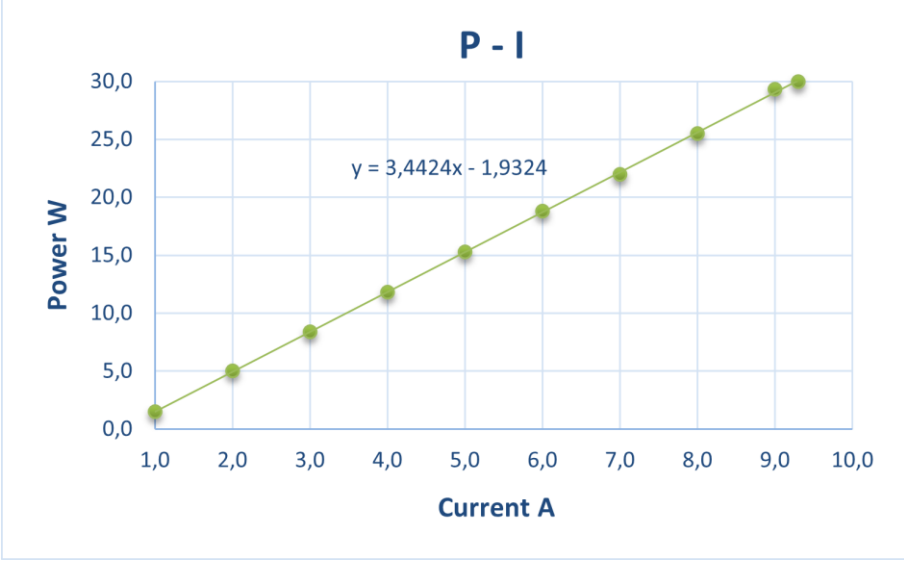
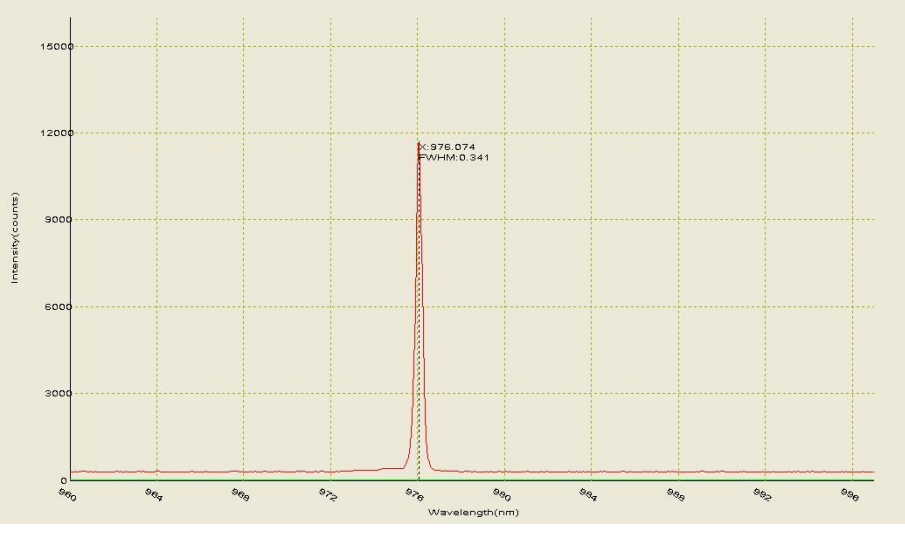


1	Laser Diode Anode
2	Laser Diode Cathode





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