PHOTONTEC BERLIN

PRODUCT SPECIFICATIONS

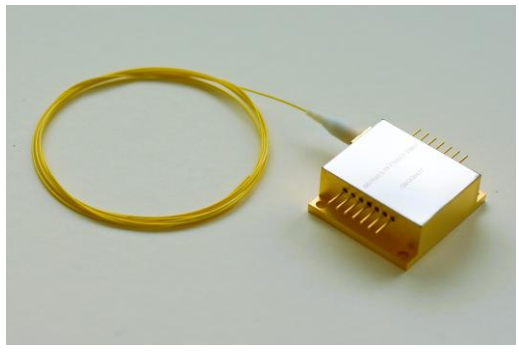
976nm Wavelength Stabilized Laser Diode

Features

- 20W output power
- Narrow linewidth
- 105µm fiber core
- Thermistor and Photodiode

Application

- Fiber laser pumping



Model			**M976±0.5-20-F105/22-T6M-P**	
Optical	**Unit**	**Min**	**Typical**	**Max**
Output Power (exit fiber)	W		20.0	22.0
Central Wavelength	nm	975.5	976.0	976.5
Spectral Width (FWHM)	nm			0.5
Wevelength Shift over Temperature	nm/°C		0.02	
Feedback Protection (1030-1100nm)	dB	40		
Fiber Pigtail				
Core Diameter	µm	102	105	108
Cladding Diameter	µm	122	125	128
Numerical Aperture	-	0.20	0.22	0.24
Connector (optional)	-		SMA905	
Electric				
Threshold Current	A		0.5	
Operating Current	A		8.0	10.0
Operating Voltage	V		4.75	5.00
Power Conversion Efficiency	%		50	
Slope Efficiency	W/A		2.6	
Absolute Ratings				
ESD	V		500	
Operating Temperature (Thermistor)*	°C		20 - 35	
Operating Humidity	%		< 75	
Storage Temperature	°C		-20 – +80	
Pin Soldering Temperature	°C		260 (10s)	

*** The actual tempearature range for wavelength locking depends on optical power range.**

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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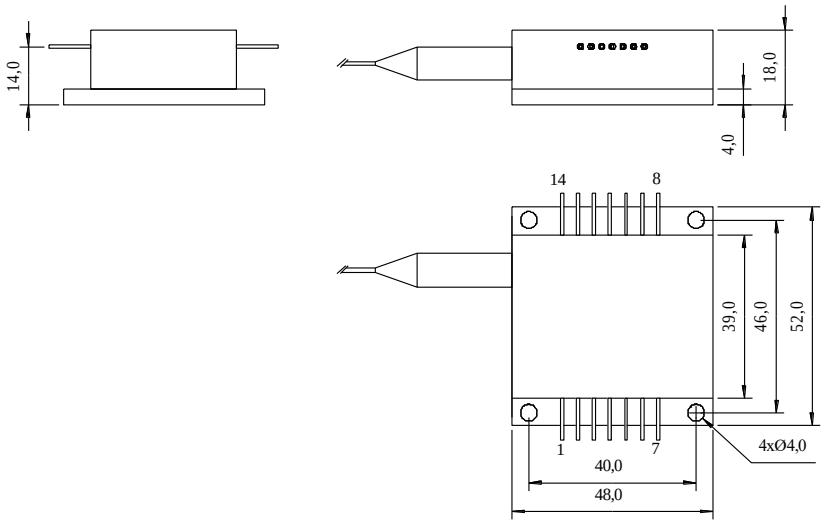
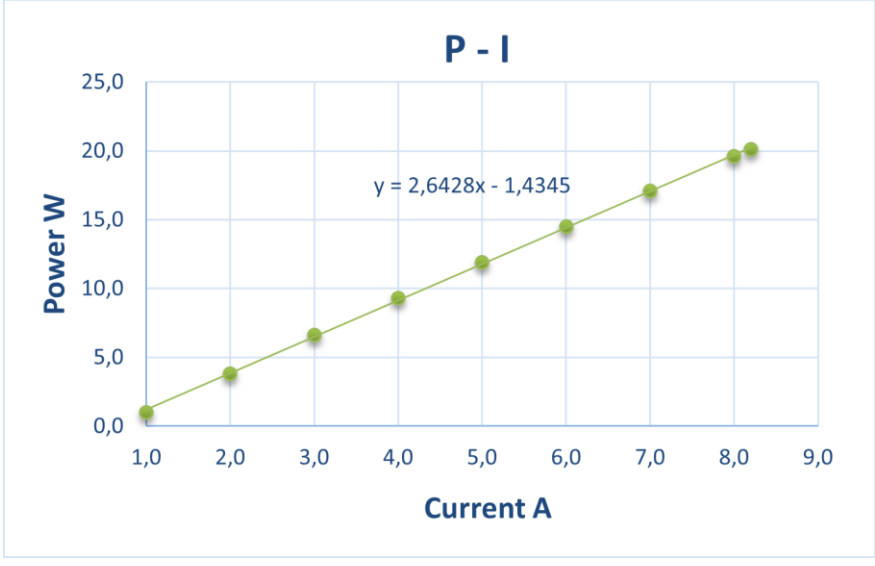
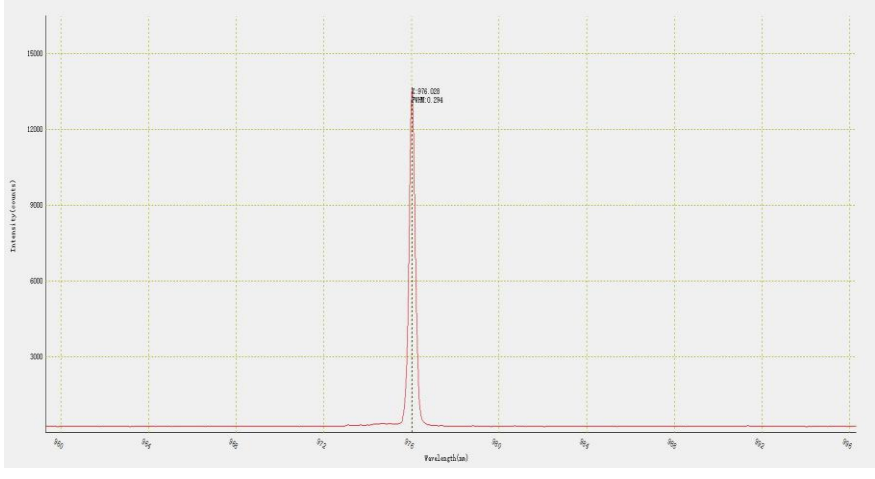


1	LD Anode
2	PD (N)
3	PD (P)
4	Thermistor
5	Thermistor
6	-
7	LD Cathode
8-14	-





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