PHOTONTEC BERLIN

PRODUCT SPECIFICATIONS

976nm Wavelength Stabilized Laser Diode

Features

- 140W optical CW power
- Narrow linewidth
- 105µm fiber core
- Thermistor and photodiode

Application

- Fiber laser pumping

Model		M976±0.5-140-F105/22-DK-P		
Optical	**Unit**	**Min**	**Typical**	**Max**
Output power (exit fiber)	W	135	140	
Central wavelength	nm	975.0	976.0	977.0
Spectral width (FWHM)	nm			1.0
Wavelength temp. Coefficient	nm/°C		0.02	
Wavelength current coefficient	nm/A		0.05	
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
Length	m		2	
Electric				
Threshold current	A		0.5	
Operating current	A		10.0	10.5
Operating voltage	V		29.5	29.8
Slope efficiency	W/A		14.6	
Power conversion efficiency	%	45		
Accessories				
Thermistor Resistance at 25°C	kΩ		10	
Photodiode Current Range	µA		100 - 1000	
Absolute ratings				
Operating temperature (thermistor)*	°C		25 – 35	
Operating humidity	%		< 75	
Storage temperature	°C		-20 – +80	

* Actual operating temperate range depends on optical power level or 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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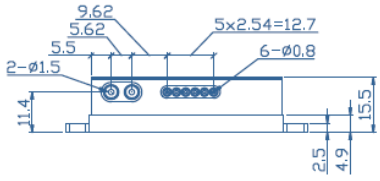
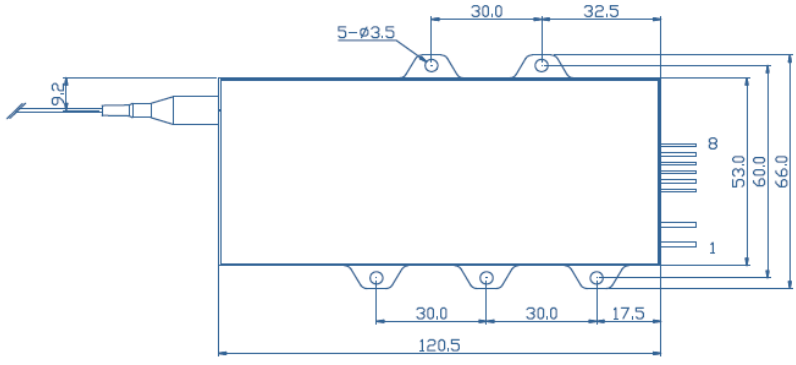
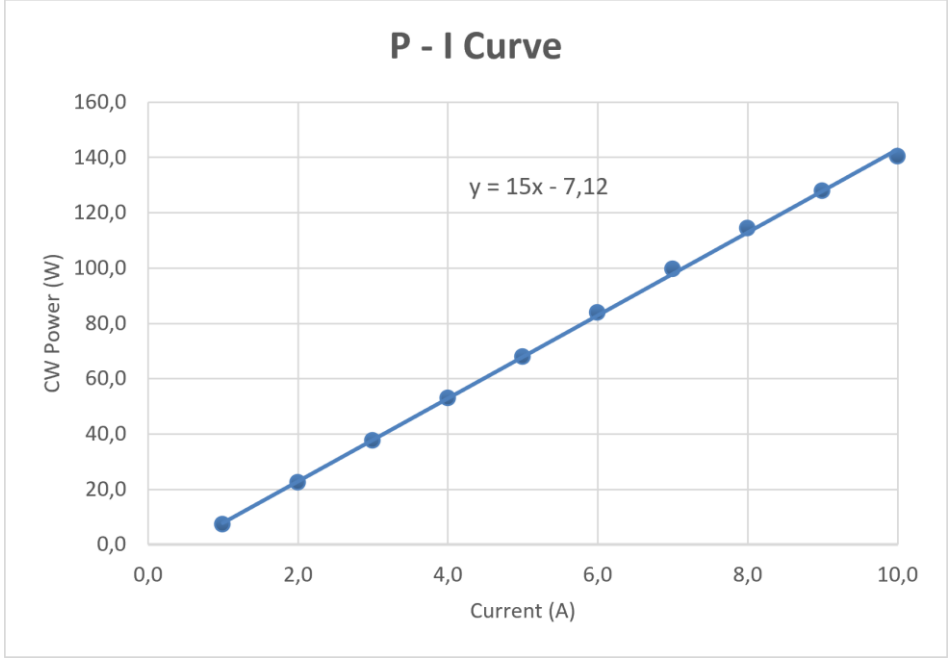
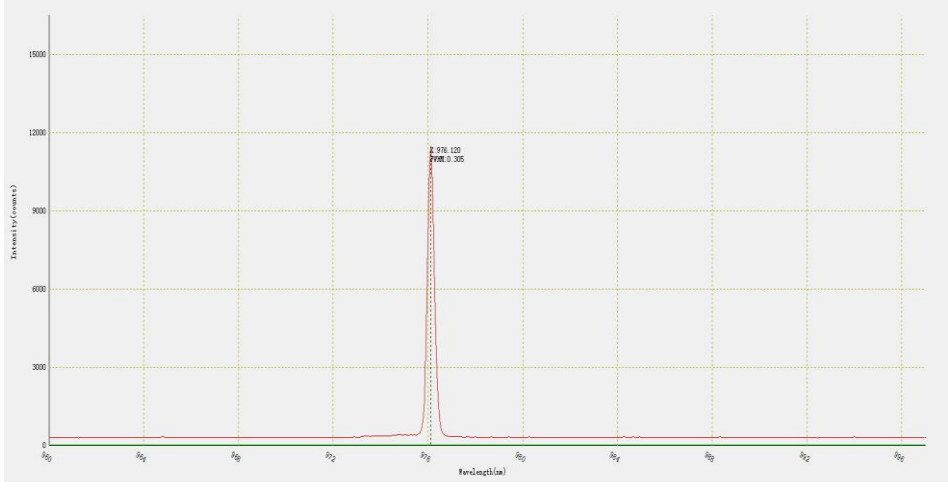


1	Laser Diode Anode
2	Laser Diode Cathode
3	-
4	-
5	Photodiode (N)
6	Photodiode (P)
7	Thermistor
8	Thermistor







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