PHOTONTEC BERLIN

PRODUCT SPECIFICATIONS

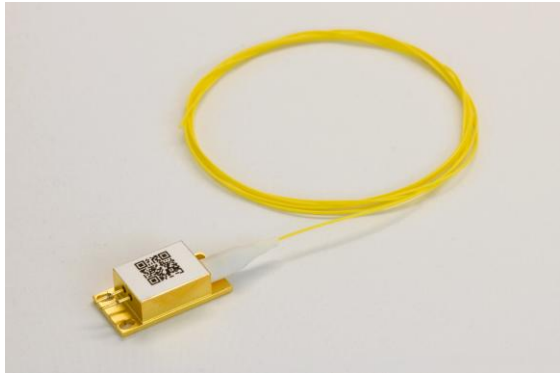
976nm Wavelength Stabilized Laser Diode

Features

- 9W optical CW power
- Narrow linewidth
- 105µm fiber core
- Thermistor and photodiode

Application

- Fiber laser pumping



Model			**M976±0.5-9-F105/22-T1-P**	
Optical	**Unit**	**Min**	**Typical**	**Max**
Output power (out of fiber)	W	8.0	9.0	
Central wavelength	nm	975.0	976.0	977.0
Spectral width (FWHM)	nm			0.5
Wevelength shift over temperature	nm/°C		0.02	
Feedback protection (1030-1100nm)	dB	40		
Fiber Pigtail				
Fiber core diameter	µm	102	105	108
Fiber cladding diameter	µm	122	125	128
Numerical aperture	-	0.20	0.22	0.24
Connector (Optional)	-		SMA905	
Electric				
Threshold current	A		0.6	
Operating current	A		11.0	12.0
Operating voltage	V		1.70	1.75
Power conversion efficiency	%		48	
Accessories				
Thermistor Resistance at 25°C	kΩ		10	
Photodiode Current Range	µA		100 - 1000	
Absolute Ratings				
Operating Temperature (baseplate)*	°C		20 - 30	
Operating humidity	%		< 75	
Storage temperature	°C		-20 – +80	
Soldering temperature	°C		250 (10s)	

* 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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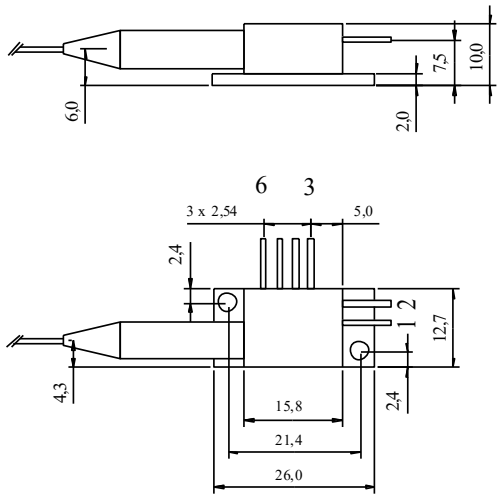
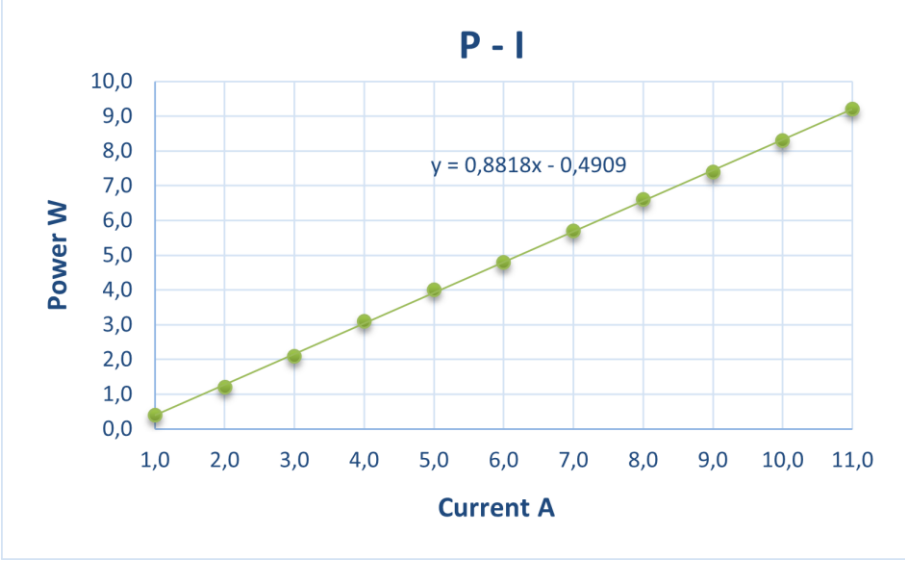
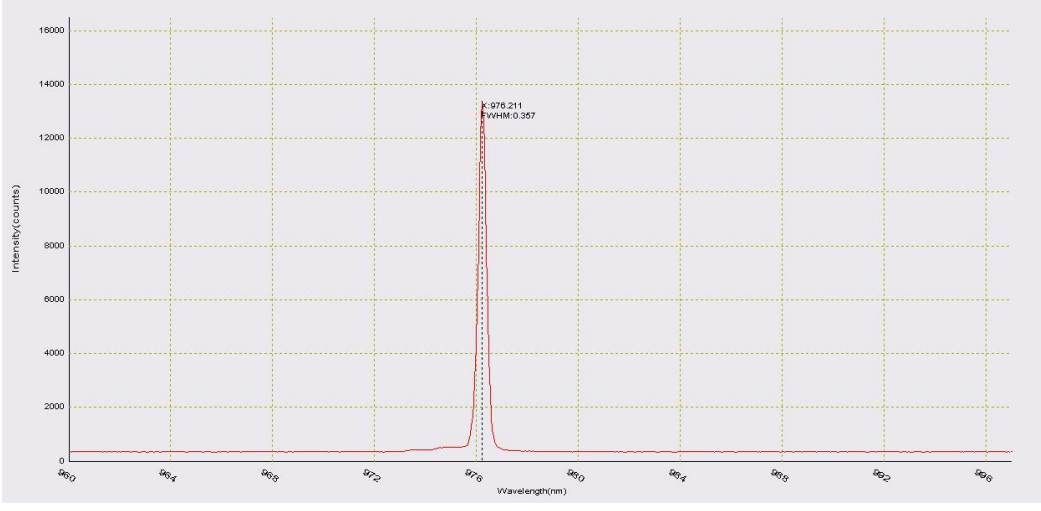
1	LD Anode
2	LD Cathode
3	Thermistor
4	Thermistor
5	PD Cathode
6	PD Anode







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