

Multimode Fiber-Pigtailed Laser

LP405-MF300



S/N: 180926-77

Center Wavelength: 402.9 nm

Fiber Type: FG050UGA

Test Date: 9/27/2018



Diode Package: TO 5.6 mm

Connector: FC/PC

Tested By: Leila



QA: Pass

Summary of Test Data (CW, $T_{case}=25^{\circ}C$)

Parameter	Symbol	Value	Unit
Fiber Output Power	P_{op}	300.0	mW
Operating Current@ P_{op}	I_{op}	358.8	mA
Operating Voltage@ P_{op}	V_{op}	4.37	V
Threshold Current	I_{th}	96.2	mA
Slope Efficiency	$\Delta P/\Delta I$	1.16	W/A

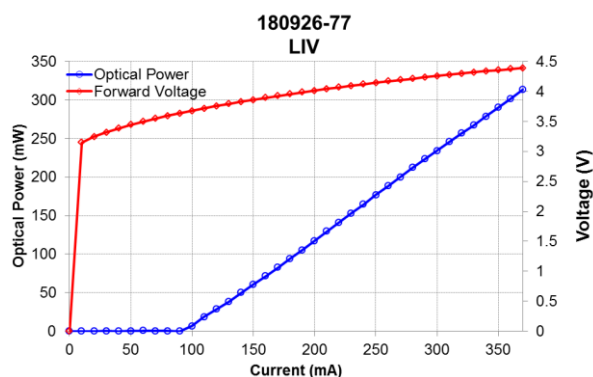
Absolute Maximum Ratings

Parameter	Ratings	Unit
Laser Diode Current*	370	mA
Optical Output Power*	305	mW
LD Reverse Voltage*	2	V
Storage Temperature	-10~65	$^{\circ}C$
Case Temperature	0~+50	$^{\circ}C$

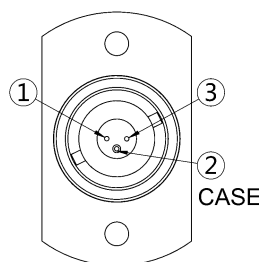
* CW, $T_{case}=25^{\circ}C$

LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT

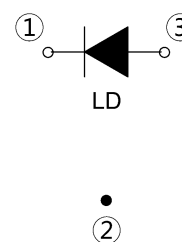
CAUTION- use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. There are no user serviceable parts in this product. When proper power is applied to this product, Laser radiation will be emitted from the optical fiber.



Bottom View



Pin Code G



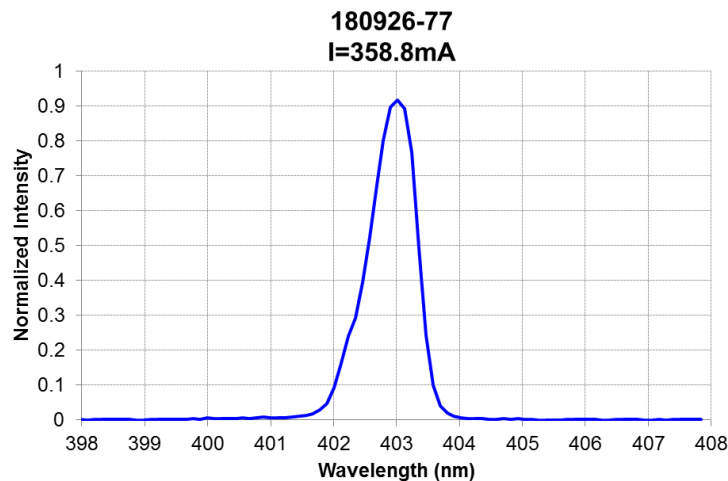
Thorlabs Inc
56 Sparta Avenue
Newton, New Jersey 07860
USA

US, Canada & South America
1-973-300-3000
Brazil
+55-16-3413 7062

France
+33 (0)970 440 844
Scandinavia
+46-31-733-30-00

Europe
+49 (0) 8131-5956-0
Japan & Asia
+81-3-6915-7701

UK & Ireland
+44 (0)1353-654440
China
+86 (0)21-60561122



$T_{\text{case}}=25^{\circ}\text{C}$, $I_{\text{op}}= 358.8\text{mA}$
Spectrum measured by CCS100.

Important Notes:

1. The maximum ratings mean the limitation over which the laser should not be operated even instant time.
2. Do not clean the fiber connector when the diode is in operation. The laser should be off when plugging or un-plugging the connector.
3. To protect the laser diode from damage due to static electricity (ESD), please follow proper ESD handling precautions.
4. Do not pull or fold the fiber. The fiber is very fragile and easily broken. Avoid handling the fiber by the rubber “boots” of the black housing and connector ends of the pigtail.
5. To ensure safe operation use only with a suitable power source that complies with the pertinent requirements for laser systems as specified in IEC-60825-1 “Safety of Laser Products.”
6. Due to the nature of Fabry-Perot laser diodes, the spectrum output will be affected by several factors such as current, temperature, and feedback to the laser. Thus, although the center wavelength will be within the specified tolerance, please note that the peak will vary.