

II-VI



FGMM-532-200-10-10-00-A

## MM Fiber Pigtailed Green Laser

### PRODUCT OVERVIEW

II-VI's family of fiber pigtailed laser products and dual-color fiber combiners offers multi-wavelength choices covering the spectral band from blue to IR, including 405 nm, 440 nm, 515 nm, 520 nm, 532 nm, 635 nm, 660 nm, 785 nm, 808 nm, 1064 nm, and other customized wavelengths. Varied fiber options (single-mode, PM, and multimode) and customized fiber output collimators are available.

### Features

- High reliability
- High stability

### Applications

- Laser alignment
- Raman spectrometry
- Biomedical instrumentation
- Digital printing

# MM Fiber Pigtailed Green Laser

## Product Specifications

Parameter		Min	Typical	Max	Conditions
Optical					
Wavelength		531 nm	532 nm	533 nm	At P <sub>o</sub> = 200 mW & 25°C
Output Power		180 mW	200 mW <sup>(1)</sup>	220 mW	At 25°C
Power Stability		-	-	±5%	APC, 2 h @ P <sub>o</sub> = 200 mW & 25°C
Operating Temperature (case)		Recommended temperature on data sheet			Within case temperature, 10~40°C
Electrical					
LD Working Current		-	1700 mA	3000 mA	At P <sub>o</sub> = 200 mW & 25°C
LD Working Voltage		-	2.2 V	2.6 V	At P <sub>o</sub> = 200 mW & 25°C
Monitor Current		400 μA	1200 μA	2500 μA	At P <sub>o</sub> = 200 mW & 25°C
Fiber					
Fiber Type		105 μm/125 μm MM fiber			-
Fiber Numerical Aperture		-	0.22	-	-
Fiber Length		1 m	-	-	-
Fiber Jacket (diameter)		900 μm buffer			-
Fiber Termination <sup>(2)</sup>		Without connector			-
Mechanical					
Laser Head Dimensions	Length	-	60 mm <sup>(3)</sup>	-	-
	Diameter	-	15 mm	-	-
Laser Wire Lead Length		250 mm	-	-	-
Reliability					
Storage Humidity		5%~85% RH			Non-condensing
Storage Temperature		-20 to 60°C			Non-condensing
Shock		500 g, 11 ms, 3 times/axis, 6 axes tested			
Vibration		2 g, 5-500 Hz, 10 cycles/axis, 4 min/cycle, 3 axes tested			
Expected Lifetime (MTTF)		5000 h	-	-	At rated power & room temp.

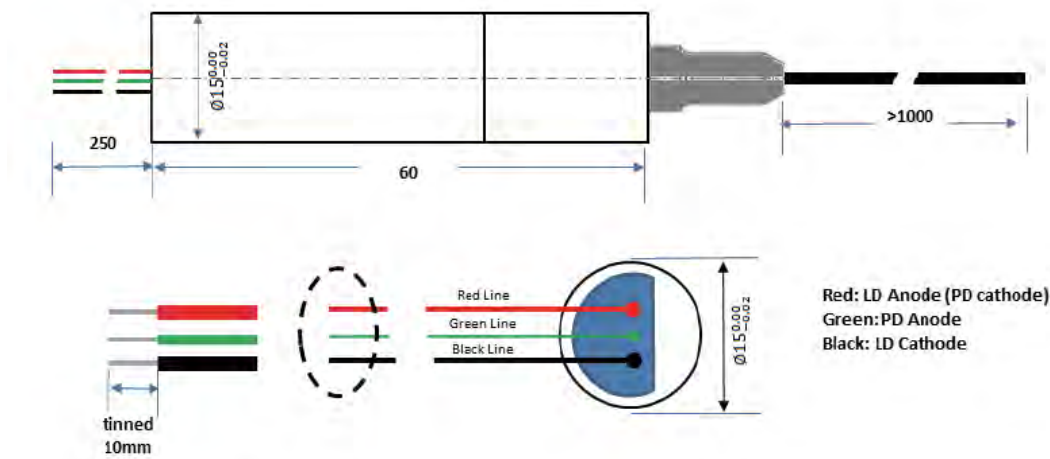
<sup>(1)</sup>Output power from the fiber termination.

<sup>(2)</sup>FC/APC, FC/PC, or SMA905 is optional.

<sup>(3)</sup>Not including the fiber boot length.

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## Dimensions and Pin Configuration (Unit: mm)



Wire Color	LD Pin	Wire Type
RED	LD Anode, PD Cathode	U1007 22AWG
BLACK	LD Cathode	U1007 22AWG
GREEN	PD Anode	UL10109 26AWG