

II-VI



FGPM-532-050-10-10-00-A

PM 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
- High polarization extinction ratio

Applications

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

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Product Specifications

Parameter	Min	Typical	Max	Conditions
Optical				
Wavelength	531 nm	532 nm	533 nm	At P ₀ = 50 mW & 25°C
Output Power	45 mW	50 mW ⁽¹⁾	55 mW	At 25°C
Power Stability	-	-	±5%	APC, 2 h @ P ₀ = 50 mW & 25°C
Polarization Extinction Ratio	15 dB	-	-	At P ₀ = 50 mW & 25°C
M Squared	-	-	1.1	
Operating Temperature (case)	Recommended temperature on data sheet			Within case temperature, 10~40°C
Electrical				
LD Working Current	-	1300 mA	1700 mA	At P ₀ = 50 mW & 25°C
LD Working Voltage	-	2.5 V	3.0 V	At P ₀ = 50 mW & 25°C
Monitor Current	100 μA	1000 μA	2500 μA	At P ₀ = 50 mW & 25°C
Fiber				
Fiber Type	3.3 μm/125 μm PM fiber			-
Fiber Numerical Aperture	-	0.12	-	-
Fiber Length	1 m	-	-	-
Fiber Jacket (diameter)	900 μm buffer			-
Fiber Termination ⁽²⁾	Without connector			-
Mechanical				
Laser Head Dimensions	Length	-	60 mm ⁽³⁾	-
	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.

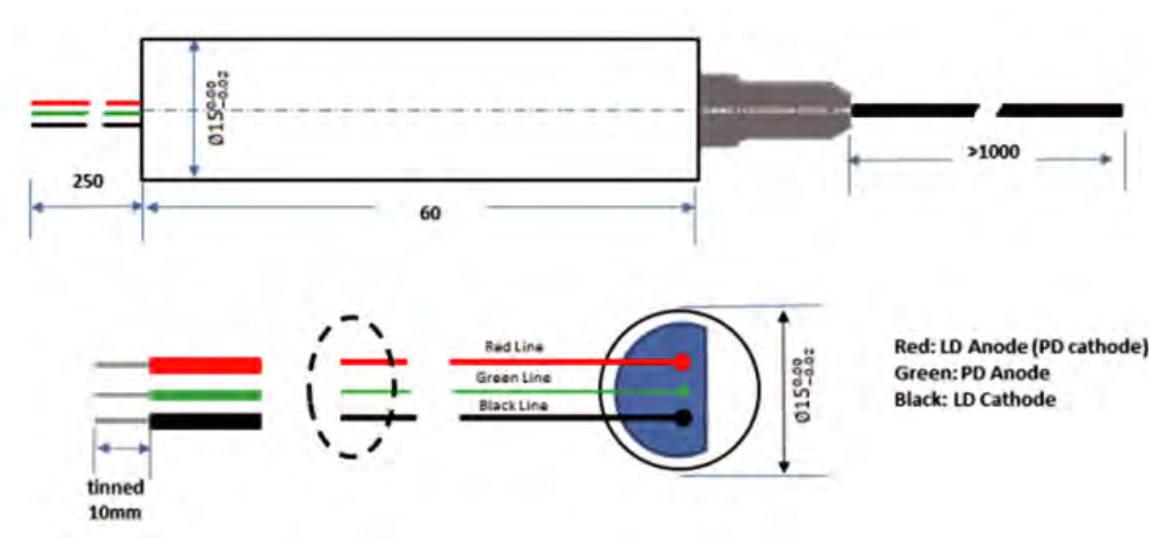
⁽¹⁾Output power from the fiber termination.

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

⁽³⁾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