

II-VI



FRPM-660-Po-10-10-00-A  
FRPM-660-010-10-10-00-A  
FRPM-660-020-10-10-00-A  
FRPM-660-030-10-10-00-A

## PM Fiber Pigtailed Red 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 pointers
- Laser displays
- Test and Measurement sources
- Survey equipment

# PM Fiber Pigtailed Red Laser

## Product Specifications

Parameter		Min	Typical	Max	Conditions
Optical					
Wavelength		652 nm	660 nm	670 nm	At Rated power & 25°C
Output Power <sup>(1)</sup>	P <sub>o</sub> = 010	-	10 mW	-	At 25°C
	P <sub>o</sub> = 020	-	20 mW	-	At 25°C
	P <sub>o</sub> = 030	-	30 mW	-	At 25°C
Power Stability		-	-	±2.5%	ACC, 2 h @ rated power & 25°C
M Squared		-	-	1.1	
Polarization Extinction Ratio		15 dB	-	-	At Rated power & 25°C
Operating Temperature (case)		Recommended temperature on data sheet			Within case temperature, -10~60°C
Electrical					
LD Working Current	P <sub>o</sub> = 010	-	100 mA	120 mA	At P <sub>o</sub> = 10 mW & 25°C
	P <sub>o</sub> = 020	-	120 mA	150 mA	At P <sub>o</sub> = 20 mW & 25°C
	P <sub>o</sub> = 030		150 mA	180 mA	At P <sub>o</sub> = 30 mW & 25°C
LD Working Voltage		-	2.3 V	3.5 V	At Rated power & 25°C
Fiber					
Fiber Type		4.5 μm/125 μm PM fiber			-
Fiber Numerical Aperture		-	0.12	-	-
Fiber Length		1 m	-	-	-
Fiber Jacket (diameter)		900 μm buffer			-
Fiber Termination <sup>(2)</sup>		Without connector			-
Mechanical					
Laser Head Dimensions	Length	-	28.4 mm	29 mm	-
	Diameter	-	8 mm	-	-
Reliability					
Storage Humidity		5%~85% RH			Non-condensing
Storage Temperature		-20 to 60°C			Non-condensing
Shock		500 g, 1 ms, 5 times/axis, 3 axes tested			
Vibration		5 g, 10-500 Hz, 4 min/cycle, 15 cycles/axis, 3 axes tested			
Expected Lifetime (MTTF)		10,000 h	-	-	At rated power & room temp.

<sup>(1)</sup>Output power from the fiber termination; 10~30 mW is optional.

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

### Dimensions and Pin Configuration (Unit: mm)

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