

# PM FIBER PIGTAILED RED LASER

## FRPM-638-001-10-10-00-A

Coherent'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

**Product Specifications**

Parameter	Min	Typical	Max	Conditions
<b>Optical</b>				
Wavelength	630 nm	638 nm	645 nm	At P <sub>O</sub> = 1 mW & 25°C
Output Power	0.8 mW	1 mW <sup>(1)</sup>	1.2 mW	At 25°C
Power Stability	-	-	±2.5%	APC, 2 h @ P <sub>O</sub> = 1 mW & 25°C
M Squared	-	-	1.1	
Polarization Extinction Ratio	15 dB	-	-	At P <sub>O</sub> = 1 mW & 25°C
Operating Temperature (case)	Recommended temperature on data sheet			Within case temperature, -10~60 °C
<b>Electrical</b>				
LD Working Current	-	20 mA	25 mA	At P <sub>O</sub> = 1 mW & 25°C
LD Working Voltage	-	2.2 V	2.4 V	At P <sub>O</sub> = 1 mW & 25°C
Monitor Current	50 µA	200 µA	500 µA	At P <sub>O</sub> = 1 mW & 25°C
<b>Fiber</b>				
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			-
<b>Mechanical</b>				
Laser Head Dimensions	Length		28.4 mm	29 mm
	Diameter	-	8 mm	-
<b>Reliability</b>				
Storage Humidity	5%~85% RH <sup>1</sup>			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 cycle/axis, 3 axes tested			
Expected Lifetime (MTTF)	10,000 h	-	-	At rated power & room temp.

(1)Output power from the fiber termination.

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

