

# Highly Stable ER and OutPower 1550nm PM Laser

Up to 2W fiber out put power, 30dB polarization extinction



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The 1550nm PM Laser source provides a polarization laser light via a PM fiber, advantageously featuring a highly stable polarization extinction ratio and constant optical output power. It is based on broadband fiber laser technology with polarization filtering. The power control has several options: fixed, manually adjustable, and remotely via RS232/USB.

The output fiber is PM 1550.

## Applications

- Sensor System
- Testing
- Instrument

## Features

- High Power
- Low Cost
- Constant ER
- Constant Output Power

## Specifications

Parameter	Min	Typical	Max	Unit
Wavelength	1530	1550	1580	nm
Wavelength Range		± 30		nm
Output Power	1		3000	mW
Output Power Stability			0.15	dB
Polarization Extinction Ratio (ER)	25	25	30	dB
ER Stability	30		50	dB
Repeatability	0.5		1	dB
Operating Temperature	-5		70	°C
Storage Temperature	-40		80	°C
Input Voltage	110		230	VAC

Rev 10/27/22

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## Dimension (mm)

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To be determined depending on the output power

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### Ordering Information

Prefix	Package	Wavelength	Power	ER	Control	Fiber	Connector
PMLS-	Standard = 11 Special = 00	1550nm = 5	2mW = A2 5mW = A5 100mW = 10 500mW = 50 1W = B10 2W = B20 5W = B50	25dB = 1 30 = 2 Special = 0	Fix = 1 Manual = 2 USB = 3 RS232 = 4 Special = 0	PM1500 = 1 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 LC = 7 Special = 0

### Laser Safety

This product meets the appropriate standard in Title 21 of the Code of Federal Regulations (CFR). FDA/CDRH Class 1M laser product. This device has been classified with the FDA/CDRH under accession number 0220191. All versions of this laser are Class 1M laser products, tested according to IEC 60825-1:2007 / EN 60825-1:2007. An additional warning for Class 1M laser products. For diverging beams, this warning shall state that viewing the laser output with certain optical instruments (for example eye loupes, magnifiers, and microscopes) within a distance of 100 mm may pose an eye hazard. For collimated beams, this warning shall state that viewing the laser output with certain instruments designed for use at a distance (for example telescopes and binoculars) may pose an eye hazard.

Wavelength = 1.3/1.5  $\mu\text{m}$ .

Maximum power = 30 mW.



\*Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

\*IEC is a registered trademark of the International Electrotechnical Commission.