Ultra High Stable PM Laser 1950nm

polarization extinction/output power stabilization, up to 5W power, up to 33dB ER

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The PMLS provide 1950nm PM Laser light with high stability in both output power and polarization extinction ratio. These advantageously features are intrinsically achieved by using a randomly polarized fiber laser with a specially made high polarization extinction ratio polarizer. The spectral width can be selected as broadband, and 5nm. The power control has several options: fixed and remotely via RS232/USB.

The output fiber is PM1950.

Applications

- Sensor System
- Testing
- Instrument

Features

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

Specifications

Parameter	Min	Typical	Max	Unit
Wavelength	185	1950	2350	nm
Spectral Width		5	40	nm
Max Output Power	1	5	20	mW
Output Power Stability			0.15	dB
Polarization Extinction Ratio (ER)	25	25	33	dB
ER Stability			2	%
Operation Moder		CW		
Repeatability	0.5		1	dB
Operating Temperature	-5		50	°C
Storage Temperature	-40		80	°C
Input Voltage	110		230	VAC
Computer Interface		USB		

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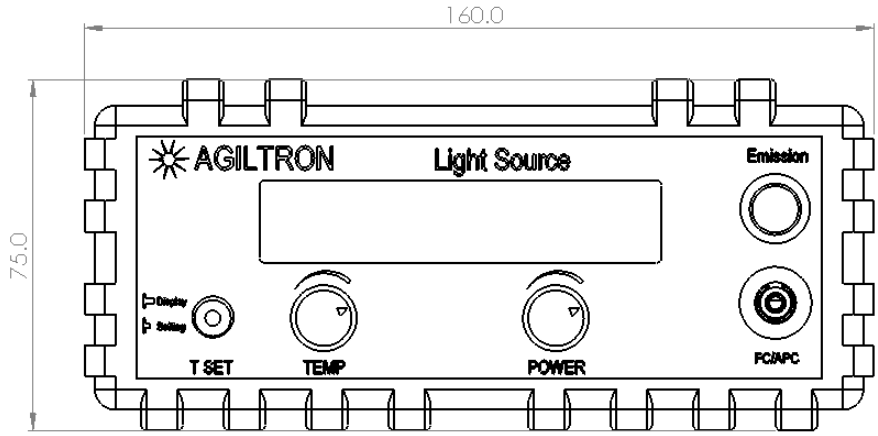
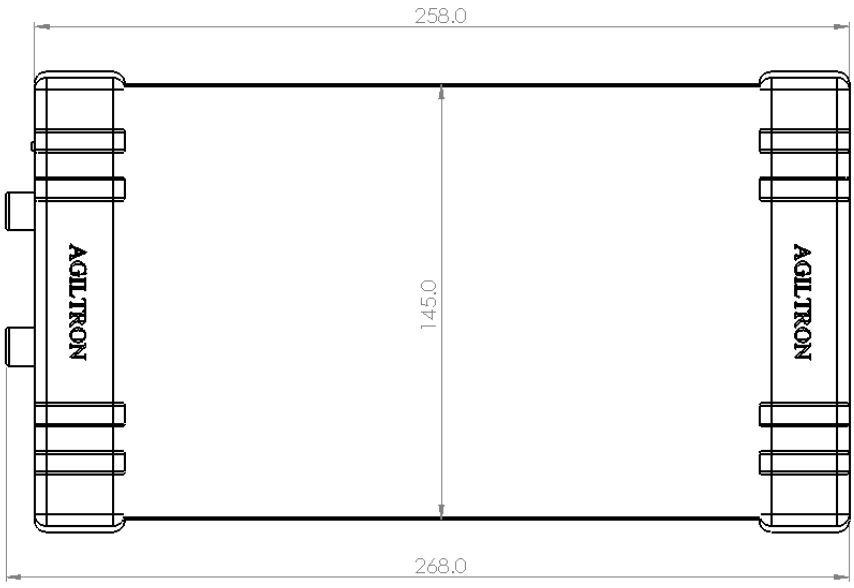
Dimension (mm)





To be determined depending on the output power

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Typical Spectrum

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Ordering Information (Part Number)

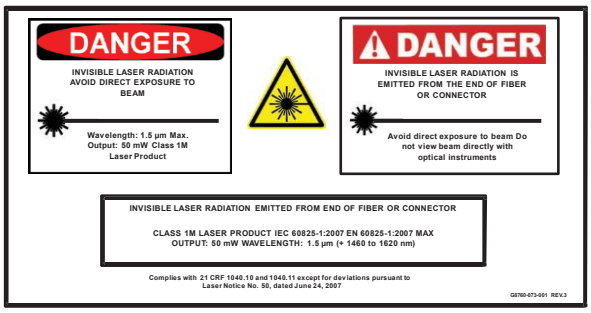
	☐☐	☐	☐	☐	☐	☐	☐	☐
Prefix	**Package**	**Wavelength**	**Power**	**ER**	**Spectral Width**	**Output Control**	**Fiber**	**Connector**
PMLS-	Benchtop = 11 Special = 00	1950nm = 9 1850nm = 8 2000nm = 2 2200nm = 3	1mW = 1 2mW = 2 5mW = 5 10mW = A Special = 0	Non = N 26dB = 1 31dB = 2 33dB = 3	Broad = 1 5nm = 2	Fixed = 1 Adjustable = 2 USB = 3 Special = 0	PM1950 = 1 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 LC/PC = 7 LC/APC = A LC/UPC = U 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 μm.

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.

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