Fiber Optical Power Regulator



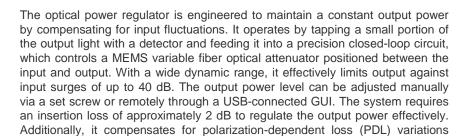
(US patent 8,666,218 and other patents pending)



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along with optical power fluctuations. This regulator provides a cost-effective solution for stabilizing and limiting optical power and is powered by a 5V wall-



Features

- Low Loss
- 0.1dB Repeatable
- Broadband
- 40dB Dynamic Range
- SM.PM.MM
- USB
- Linear Response

Applications

- Power Control
- Power Regulation
- Surge Protection
- Instrumentation

Specifications

Parameter	Min	Typical	Max	Unit	
Wavelength		450		2500	nm
Insertion Loss [1]		1	1.2	2	dB
Attenuation Range		40	45	70	dB
Accuracy ^[2]	0.6-30dB		0.05	0.1	dB
	30-60dB		0.2	0.6	dB
	60-80dB		1	3	dB
Extinction Ratio (PM version only)		18	23	25	dB
Polarization Mode Dispersion (SM version only)			0.01	0.05	ps
Return Loss		55			dB
Response Time [3]		5	10	150	ms
Power Consumption				0.5	W
Optical Power handling (CW)			300	500	mW
Operating Temperature		-10		75	°C
Storage Temperature	-40		85	°C	
Weight			g		

Notes:

[1]. Without connector and at room temperature

plug power supply included with the module.

- [2]. Within 40nm wavelength range
- [3]. Related to the light intensity fluctuation level

Note: The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this <u>link</u>]:

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Electrical Control Interface

The VOA can be controlled by a computer via a USB interface. It uses a Micro USB type B connector that also provide power to the VOA at the same time. The device accept UART command and recognized as a serial device by the PC.

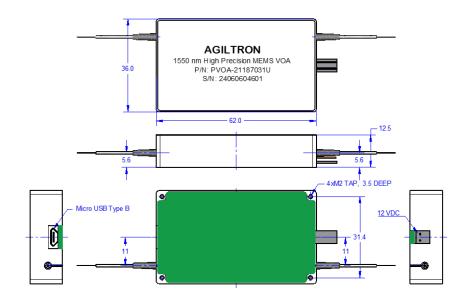
Pin 1 – 0V

Pin 2 - 5V DC Power

Pin 4 - 0V

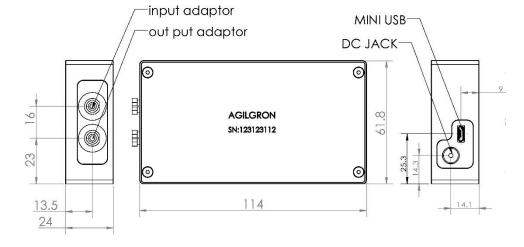
Pin 5 - 0-5V Control

Mechanical Footprint Dimensions (mm)



Regular Package

Rugged Package



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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Ordering Information

	11						
Prefix	Input Power	Wavelength	Output power [1]	Dynamic	Fiber Type	Fiber Length	Connector [2]
MOPR-	< 0.5W = 11	1550 = 5 2000 = 2 1310 = 3 1480 = 4 1060 = 1 1625 = 6 780 = 7 850 = 8 650 = E 550 = F 400 = G Special = 0	0.001W = A1 0.002W = A2 0.01W = B1 0.02W = B2 0.03W = B3 0.04W = B4 0.05W = B5 0.06W = B6 0.07W = B7 0.08W = B8 0.09W = B9 0.1W = C1 0.2W = C2 0.3W = C3 0.4W = C4 0.5W = C5	40dB = 1 70dB = 2	SMF-28 = 1 HI1060 = 2 780HP = 3 PM1550 = 5 PM850 = 8 PM980 = 9 SM400 = 4 SM450 = A PM460 = C SM600 = 6 PM630 = D PM780 = 7 SM800 = E 50/125 = F SM1950 = G PM1950 = H Special = 0	0.25m = 1 0.5m = 2 1.0 m = 3 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/APC = A LC/UPC = U Special = 0

[1]: Output power must be smaller than the input power.

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.

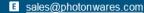
Wavelength = $1.3/1.5 \mu m$.

Maximum power = 30 mW.



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