



In-line Power Monitor Array

Product Specifications

The multi-channel power monitor array is used for detection of output power on multiple optical channels over a wide 60dB optical power range. The product is based on the Eigenlight products (licensed by NeoPhotonics) and Pure Photonics branded. In addition to the original product, this product includes a built-in power supply and a USB interface for read-out of the power data. The product can be configured with (PPAA...) or without (PPDA...) analog outputs, which provide an output voltage proportional to the detected power level (typically 1mV per dBm). The product can be configured with a VOA in the optical path that can attenuate and control the output power.

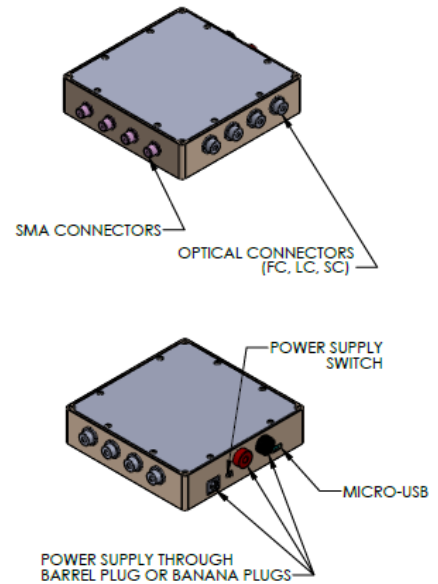
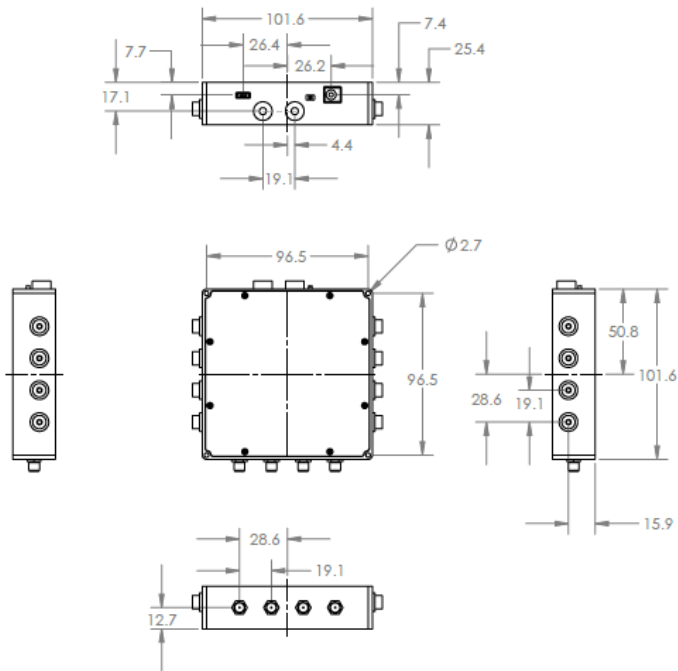
Specifications

	High Sensitivity	High Power
Power Range (input)	-50 - +15 dBm	-40 - +25 dBm
Insertion Loss no VOA VOA	< 0.4 dB < 1.2 dB	< 0.2 dB < 1.0 dB
Absolute Accuracy	+- 0.2 dB	
Return Loss	> 70 dB	
Wavelength Range	1520 – 1620 nm	
Directivity (difference in sensitivity between forward propagating light and backward propagating light)	> 10 dB	
Polarization Dependent Loss	< 0.01 dB	
Polarization Stability (change in signal with polarization) no VOA VOA	< 0.25 dB < 0.4 dB	
Spectral Slope of Responsivity	< 0.005 dB/nm < 0.005 dB/nm	
Fiber Type	Single Mode Single Mode	
Optical Inputs / outputs	Pigtail or bulkhead: SC, SC/APC, LC, LC/APC, FC/PC, FC/APC	
Response Time (optical power dependent)	< 0.1 second	
Optional Analog Output Responsivity Output impedance	1 mV/dBm (default) - 10mV/dBm 40 kOhm	

Connector	SMA
Optional VOA Attenuation range Output impedance Connector	>20 dB
External Power	<i>Banana-plugs (GND and +10V) or barrel plug (with power supply)</i>
Operating Temperature	0 – 40 C
Storage Temperature	0 – 60 C
Case Materials	Aluminum
Dimensions 2 / 4 channels 8 channels	4" x 4" x 1" 6" x 6" x 1"
Weight	< 2 lb

Mechanical Configuration

4 channel version with optional analog output shown. Configuration with 2 channels is equivalent (with fewer in/outputs). Configuration with 8 channels is 6" x 6" x 1".



Example

PPAA420-15-15



Part-numbering

With analog outputs: PPAANx0(-VOA)-yy-zz

No analog outputs: PPDANx0(-VOA)-yy-zz

N	Number of Channels 2 / 4 / 8
x	Power range 1: High sensitivity 2: High power
-VOA (blank)	With VOA No VOA
yy	Input connector 10/70: FC/ PC pigtail/bulkhead 15/75: FC/APC pigtail/bulkhead 30/90: SC pigtail/bulkhead 35/95: SC/APC pigtail/bulkhead 40/80: LC pigtail/bulkhead 45/85: LC/APC pigtail/bulkhead
zz	Output connector (see above)