Multimode Power Monitor

Features

- Integrated
- Low Loss Device
- Custom Tap Ratios Available
- Compact Design

Product Description

The Tap Optical Power Monitor is a hybrid fiber optical passive component that integrates a power taper and a high sensitivity PIN photodiode or avalanche photodiode for power monitoring applications. The Power Monitor minimizes component assembly costs and module footprint while increasing module design efficiency by facilitating fiber Management.

The Power Monitor combines the functionality of an optical coupler and a photodiode while delivering low insertion loss and low dark current with high temperature stability over a wide wavelength range.

Performance Specifications

Power Monitor	Min	Typical	Max	Unit
Wavelength [1]	500	850	1700	nm
Tap Ratio		3		%
Insertion Loss[2]		0.6	0.80	dB
Responsivity[3]	5	10	15	mA/W
Input Power[4]	-30		20	dBm
Wavelength Dependent Loss		0.02	0.04	dB/nm
Return Loss	20	25		dB
Dark Current at 23°C (for PIN-PD)		1.0	5.0	nA
Dark Current at 23°C (for APD)	0.02	0.05	0.4	nA
Capacitance(for PIN-PD)		8	15	pF
Capacitance(for APD)		1.5		pF
Response Bandwidth		1		MHz
Operating Temperature	-5		75	°C
Storage Temperature	-40		85	°C
Reliability	Telcordia 1209 and 1221			
Fiber Type	MMF 50/125, or 62.5/125			
Package Dimension		ϕ6.0×L18		mm

Notes:

Parameters are specified for the signal wavelength range, all polarization states, and operating temperature range without connector unless otherwise stated.

[1]. The monitor wavelength depends on the detector. Si for 400~1100nm, InGaAs for 500~1700nm, GaAsP for 300~680 nm.

[2]. The insertion loss is measured at 850 nm with CPR<14.

[3]. It is specified based Si-PD for 850 nm light. Customer specified wavelength measurement is available. Please call us for other PDs.

[4]. The maximum optical power is the maximum value of the power at input port within the PD linearity range specified.

Applications

- Channel Monitoring
- Power Monitoring in Optical Interface Modules
- Gain Monitoring for Amplifier
- DWDM System Monitoring

RoHS Compliant

15 Presidential Way, Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040
www.agiltron.com

Revision: 7-3-18

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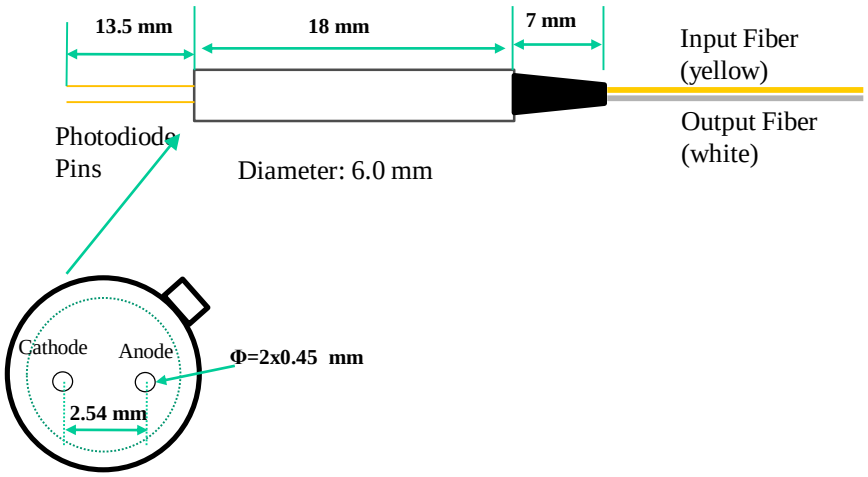
Mechanical Footprint Dimensions (Unit:mm)



Ordering Information

MMPM-	☐☐	☐	☐	☐	☐☐		☐	☐
	Tap Ratio	Wavelength (measured)	Directivity	PD Type	Fiber Type		Fiber Length	Connector
	1%=01 3%=03 5%=05 Special=00	550=2 850=8 1060=1 1310=3 1550=5 Special=0	No=1 Yes=2	Si=1 InGaAs=2 GaAsP=3 Special=0	50/125=1 62.5/125=2 Special=0	Bare fiber=1 900um Loose Tube=3 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=7 Special=0

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