

# 850 nm MMF Power Monitor

(patent pending)

## Product Description

The Tap Optical Power Monitor is a hybrid fiber optical passive component that integrates a thin-film tap of flat spectral response with a high sensitivity PIN 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	800	850	1500	nm
Tap Ratio	1	3	5	%
Insertion Loss <sup>[1]</sup>	0.45	0.6	0.70	dB
Responsivity	5	10	25	mA/W
Input Power	-35		20	dBm
Wavelength Dependent Loss		0.002	0.003	dB/nm
Responsivity Flatness (1520-1620nm)		±0.2		dB
Return Loss		25		dB
Dark Current at 23°C		1.0	5.0	nA
Capacitance		8	15	pF
Reverse Voltage			30	V
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 insertion loss is measured at single wavelength and CPR<14.
2. The maximum optical power is the maximum value of the power at input port within the PD linearity range specified.

## Features

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

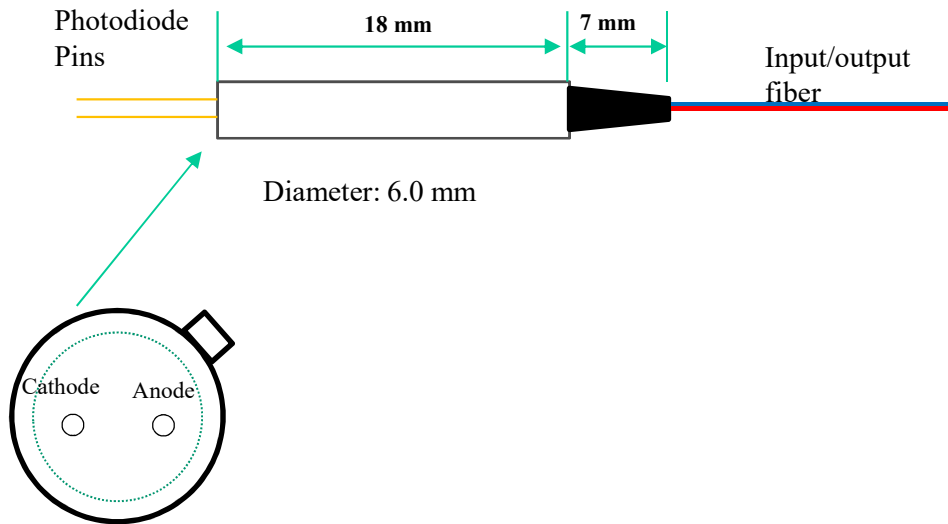
## Applications

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



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## Mechanical Footprint Dimensions (Unit:mm)



## Ordering Information

MMPM-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Tap Ratio	Wavelength	Directivity	Fiber Type		Fiber Length	Connector
	1%=01 3%=03 5%=05 Special=00	850=8 Special=0	No=1 Yes=2	MMF 50/125=1 MMF 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