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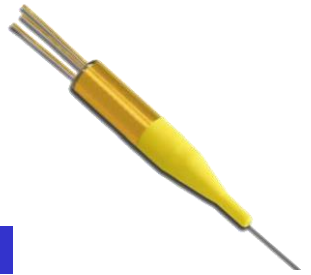
# Multimode Fiber Tap Power Monitor

## (reflective configuration)

### 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 Silicon photodiode for power monitoring applications near 850nm. The Silicon detector provides a low noise measurement while conventional InGaAs detectors are less sensitive at 850nm wavelength band. The Power Monitor minimizes component assembly costs and module footprint while increasing module design efficiency by facilitating fiber Management. This tap monitor is designed for low speed power monitor, not for high speed data processing.

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

Parameters	Specification			Unit	
	Min.	Typ.	Max.		
Operating Wavelength Range	770 ~ 860			nm	
Insertion Loss <sup>1</sup>	5% Tap		0.8	dB	
Return loss <sup>1</sup>	30			dB	
PD Responsivity (relative to nominal input power)	15		36	mA/W	
Dark Current	-5V bias, 23°C		0.05	2	nA
	-5V bias, 70°C			15	nA
3-dB Bandwidth	-5V bias, 50Ω load		10		MHz
Operating Temperature Range	0 to +70			°C	
Storage Temperature Range	-40 to +85			°C	
Fiber Type	Multi-mode 50μm or 62.5μm core				
Package Dimensions	(Ø)6 x (L) 18			mm	

Notes:  
1) Excluding connectors.

### Features

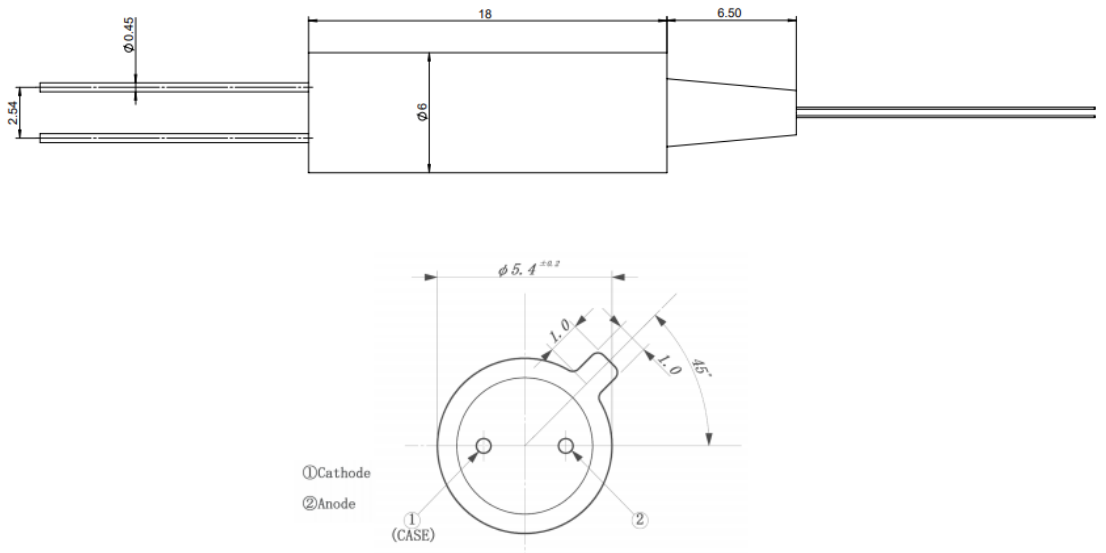
- Easy for Integrating
- Low Loss Device
- Custom Tap Ratios Available
- Compact Design
- Low dark current
- Hermetically sealed

### Applications

- DWDM Channel Monitoring
- Power Monitoring in Optical Interface Modules
- Gain Monitoring for Amplifier
- EDFAs and Raman amplifiers
- Compact Design

# Multimode Integrated Fiber Tap Power Monitor

## Mechanical Footprint Dimensions (Unit:mm)



\*Two fiber ports for input and output without directivity.

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

## Ordering Information

Prefix	Tap Ratio	Wavelength	Directivity	Bandwidth	Fiber Type	Fiber Cover	Fiber Length	Connector
MMPM-	2-5% = 01* 10% = 10 Special = 00	850nm = 8 Special = 0	Non = 0 Yes = 1	0.1G = 1	50/125um = 2 62.5/125um = 3 Special = 9	Bare fiber = 1 Loose tube = 2 Special = 3	0.25m = 1 0.5m = 2 1.0m = 3 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Duplex LC = 8 MTP = 9 Special = 0

\* Multimode tap ratio is related to the laser mode field. We use CPR-14 to test