

One Channel Integrated Power **Monitor**

(patent pending)

Product Description

The Tap Optical Power Monitor is a hybrid fiber optical passive component that integrates a flat spectral response of a thin-film tap 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 integrates 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. high temperature stability over a wide wavelength range.



Features

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



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TM Series Power Monitor	Min	Typical	Max	Unit		
Wavelength	1270~135	0 or 1520~1	520	nm		
Tap Ratio	1	3	5	%		
Insertion Loss	0.35	0.45	0.60	dB		
Responsivity	8	25	45	mA/W		
Input Power	22	18	15	dBm		
WDL		0.002		dB/nm		
Tensile load		5		N		
Return Loss	·	45		dB		
PDL	·	0.03	0.05	dB		
Dark Current at 23°C	·	0.4	1.0	nA		
Directivity (two types)		0 or 25		dB		
Capacitance		0.7	0.9	pF		
Reverse Voltage	·	5	20	V		
Rise/Fall Time	·	0.3		ns		
Cut-Off Frequency	·	2		GHz		
Operating Temperature	-5		75	°C		
Storage Temperature	-40		85	°C		
Reliability	Telcordia 1209 and 1221					
Fiber Type	SMF28, PM					
	OD6.0					
Package Dimension	fiber o OD6.0x	mm				

Applications

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

Notes:

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

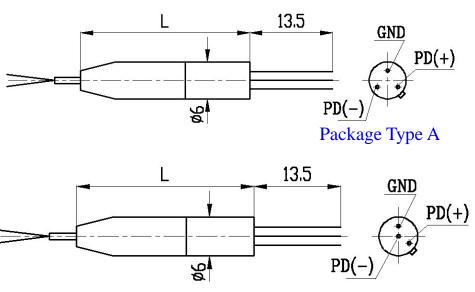
- The net responsivity is defined as the ratio of the PD current output and optical power measured at output fiber
- The maximum optical power is the maximum value of the power at input port within the PD linearity range specified.

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Mechanical Footprint Dimensions (Unit:mm)



Standard Package

Ordering Information

ТОРМ-								
	Tap Ratio	Wavelength	Directivity	Package Type	Fiber Type		Fiber Length	Connector Type
	1% =11 3% =33 5% =55 Special =00	1310 = 3 1550 = 5 Special = 0	No = 1 Yes = 2	Standard =1 Type A =2 Special = 0	SMF-28=1 Panda PM=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