BUY NOW

PHOTONWARES

Fiber Coupled Power Monitor

(350nm to 2300nm, all fiber types)

Product Description

The Fiber Coupled Optical Power Monitor is a component that directly integrates a fiber with a high sensitivity photodiode for power measurement applications. Our Power Monitor design minimizes component assembly costs and module footprint while increasing stability over a wide temperature and wavelength ranges.

The Fiber Coupled Optical Power Monitor comes with all wavelength and fiber types. Associated sensor electronic amplifier is also available.

Features

- Low Cost
- All Wavelength
- All Fiber Type
- Compact Design

Applications

- Channel Monitoring
- Power Monitoring in Optical Interface Modules
- Gain Monitoring for Amplifier
- Instruments

Performance Specifications

Fiber Coupled Power Monitor	Min	Typical	Max	Unit
Wavelength	350		2300	nm
Light Collection Efficiency	80	95	100	%
Responsivity[2]	8	25	45	mA/W
Input Power	-45		27	dBm
WDL		0.02		dB/nm
PDL[3]		0.03	0.05	dB
Polarization extinction ratio[4]	18	23		dB
Tensile load		5		N
Return Loss	45			dB
Dark Current at 23°C		0.4	1.0	nA
Directivity[5]		None 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		
Package Dimension		Ø 6.0 x L 18		mm

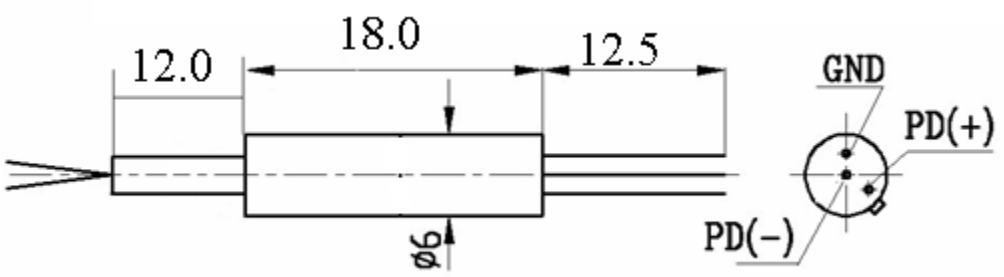
Notes:

1. Insertion Loss excluding connectors.
2. The net responsivity is defined as the ratio of the PD current output and optical power measured at output fiber
3. Single Mode Fiber version only.
4. PM Fiber version only.
5. Directivity defines the responsivity contrast between the case that light power comes from input fiber port and the case that light power comes from output fiber port. From 1260 to 1620nm.

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

www.agiltron.com

Mechanical Footprint Dimensions (Unit:mm)



Standard Package for Infrared Band. For other wavelength band, size may vary due to special detector configurations.

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

Ordering Information

FTPM-	☐☐	☐	☐	☐	☐☐	☐	☐
	Wavelength	**AR Coating**	**TEC Cooling**	**Package**	**Fiber Type**	**Fiber Length**	**Connector**
	1260—1620= 10 1780 -2000 =20 1850- 2300 =21 850 -1620 = 11 850 -980 =89 650-780= 67 550 -650 =56 450 -750 = 50 350-450 = 34 Special = 0	No = 1 Yes = 2	No = 1 Yes = 2	Standard=1 Special = 0	Choose from table below	900umTube=3 Bare fiber =1 Special = 0	0.25m= 1 0.5m = 2 1.0 m= 3 1.5 m= 5 Special =0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0

01	SMF-28	34	PM1550	67	STEP 50/125μm)
02	SMF-28e	35	PM1950	68	
03	Corning XB	36	PM1310	69	
04	SM450	37	PM400	70	
05	SM2000	38	PM480	71	GIF50 (GIF 50/125μm)
06	SM600	39	PM630	72	GIF625 (GIF 62.5/125μm)
07	Hi780	40	PM850	73	106/125μm
08	SM800	41	PM980	74	FG105LCA
09	Hi980	42		75	FG50LGA
10	Hi1060	43		76	200 μm
11	Draka BBE	44		77	400 μm
12		45		78	800 μm

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

www.agiltron.com