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Fiber Coupled 2 μm InGaAs PIN Photodiode

(900 to 2400nm)

Product Description

The Fiber Coupled InGaAs PIN Photodiode is based on a unique package that features high speed fast rise and fall response. The component integrates a fiber with a high sensitivity/small area photodiode for signal detection. The response is analog without TIAC. Our design minimizes component assembly costs and module footprint while increasing stability over a wide temperature and wavelength ranges.

Associated sensor electronic amplifier is also available.



Features

- Low Cost
- Large Bandwidth
- ns Fast Response
- High Reliability

Performance Specifications

Parameters	Min	Typical	Max	Unit
Wavelength	900		2400	nm
Responsivity ²	8	25	45	mA/W
Input Power	-45		27	dBm
PDL ³		0.03	0.05	dB
Polarization extinction ratio ⁴	18	23		dB
Dark Current at 23°C		0.4	1.0	nA
Capacitance		0.2	0.9	pF
Reverse Voltage		5	20	V
Rise/Fall Time		10		ns
Operating Temperature	-5		75	°C
Storage Temperature	-40		85	°C
Reliability	Telcordia 1209 and 1221			
Package Dimension	∅ 6.0 x L 18			mm

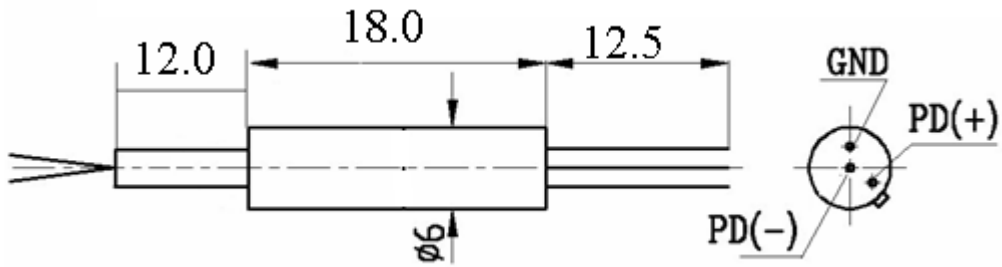
Notes:

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.

Applications

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

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

FCHI-	24	2	1	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Wavelength	AR Coating	TEC Cooling	Package	Fiber Type	Fiber Buffer	Fiber Length	Connector
	900-2400 = 24 Special = 0	Yes = 2	No = 1 Yes = 2	Standard=1 Special = 0	SM28=1 SM1900=2 PM1500=3 PM1900=4 50/125=5 Special=0	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