

## Fiber Pigtailed PD

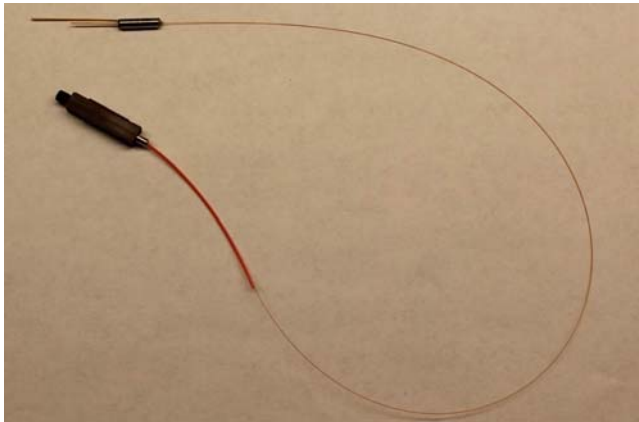
For fiber optic communication, medical equipment, and instrumentation

WSP's Fiber Pigtailed PDs use the miniature TO-25 can sealed InGaAs chips coupled with input fibers. The Fiber Pigtailed PDs have high and linear responsivity over wide input power range and wavelength range.

Due to their miniature size, they are ideal for tight space applications and for dense multiple detector assemblies. The fiber pigtailed PDs have a diameter of 3.0mm and a length of 12mm. The PD's case is electrically isolated from their two leads, which prevents electrical shortage if packed in proximity to conductive materials or when they are assembled as an array.

The choice for fiber type, length, and connectors are flexible per request.

WSP's Fiber Pigtailed PDs have long been used in medical instrumentation, sensing and fiber laser industries, due to their stable and reliable performance.



### Features:

- Two leads with electrical isolation to package
- High Responsivity
- Linear Responsivity
- Low Dark Current
- High Reliability(GR-468-Core)
- Integration with other functions are available
- Customer wavelength & configurations available

### Applications:

- Fiber optic communication
- Sensing system
- Instrumentation

### Technical Data

Parameter	Unit	Specifications
Operating Wavelength	nm	980 ~ 1620
Fiber		PM850, PM780, PM98, PM13, PM15, SMF28, HI1060, single- & double-clad PM-LMA, or customer specify
Responsivity @ 1260nm	mA/W	>0.6 @1260nm
Dark Current	nA	≤1.0 (@25°C, 5V bias)
Polarization Extinction Ratio	dB	> 25 (for PM fibers)
Maximum Input Power	mW	1000
Return Loss @1260nm	dB	≥ 35
Dark Current	nA	≤1.0 (@25°C, 5V bias)
Reverse Voltage	V	≤30
-3dB Bandwidth	GHz	≥1.5
Dimension	mm	Ø3.0X12
Operating Temperature	°C	-5 ~ 70
Storage Temperature	°C	-40 ~ 85

\* for some LMA fibers PERs are limited by fiber PERs

**Absolute maximum rating (25°C):**

Item	Symbol	Unit	Value
Reverse voltage	$V_R$	V	20
Maximum optical power input	$P_{max}$	mW	30
Forward current	$I_F$	mA	10
Operating case temperature range	$T_C$		-40 to +85
Storage temperature range	$T_{STG}$		-40 to +85