

# Pigtailed PIN Photodiodes

(patent pending)

## Product Description

The Pigtailed PIN Photodiodes are designed for optical network monitoring applications. The photodiode is fabricated with a proprietary InGaAs process and assembled into a hermetically sealed package with an antireflective-coated lens. A stainless steel housing is used to actively couple the 250um single mode fiber to the package. The fiber is reinforced with a rubber boot to relieve bending stresses.



## Performance Specifications

Parameters	Min	Typical	Max	Unit
Active Diameter		75		μm
Operation Wavelength		1310 & C Band		nm
Responsivity				
λ = 1310 nm	0.80			A/W
λ = 1550 nm	0.95			A/W
Back Reflection	-40			dB
Dark Current				
Standard Leakage			0.6	nA
Low Leakage			0.08	nA
Capacitance			0.75	pF
Bandwidth		2.0		GHz
PDL				
λ = 1310 nm		0.1		dB
λ = 1550 nm		0.1		dB

## Features

- Low Back Reflection
- Hermetical Seal
- High Responsivity
- C Band and 1310nm
- Compact Design

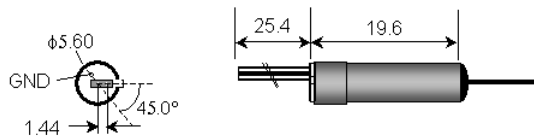
## Applications

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



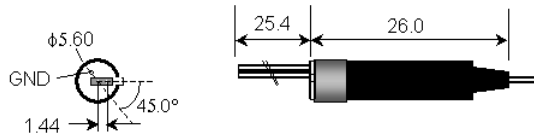
# Pigtailed PIN Photodiodes

## Mechanical Footprint Dimensions (mm)



Pin diameter: 0.46

Without loose tube



Pin diameter: 0.46

With loose tube

## Ordering Information

PDMD-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Off State	Package Type	Fiber Type	Fiber Length	Connector	
	Regular=12 Special=00	1310=3 1550=5 Special=0	Normally open=1	Standard=2 Special=0	SMF-28=1 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

