



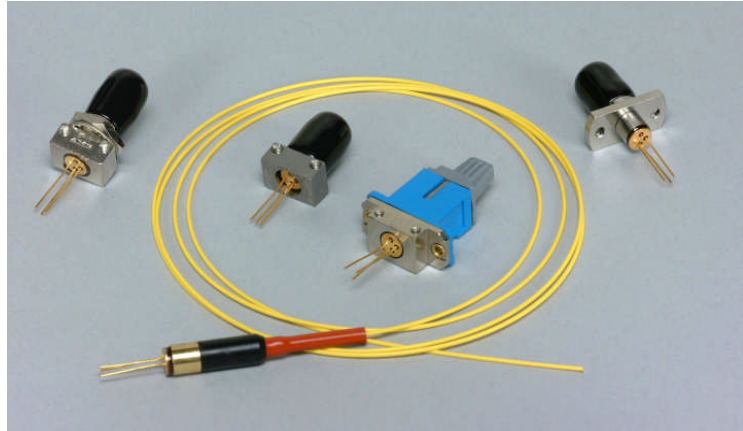
InGaAs PIN Photodiodes (75 μm)



PD-LD Inc. offers a variety of standard and custom PIN Photodiodes and APDs in fiber coupled packages. The semiconductor offerings are of proven manufacture and design. Our PDINP Series are 75um diameter InGaAs PIN photodiodes that are optimal from 1100 to 1650nm. These devices are available in fiber pigtailed co-axial packages or in connector style receptacle packages.

Low Back Reflection Assemblies

For those applications requiring low optical back reflection, PD-LD offers a series of fiber pigtailed InGaAs detectors. Typically, 55 μm or 75um InGaAs detectors are aligned to angle-polished, radially tuned fiber pig-tails, in order to minimize incident reflected light. With this process, back reflection values from -40 to -50dB may be specified. Such devices are ideal for CATV, tap monitor and high speed digital applications.



Features

Applications

Performance Specifications: Examples (Other options available)

PD-LD Part Number	Zarlink X-Ref	Connector or Receptacle Type	Fiber Type Core/Cladding(um)	Lead Orientation	Bandwidth -3dB (GHz)
InGaAs (@ 5V bias, 1300nm Laser Source, 25°C. Maximum Input power 10mW, 50/125um test fiber. 0.9pF maximum capacitance. 0.8A/W min responsivity.					
PDINP075FC13-W-0	MF432FC	FC Panel Mount	62.5/125	“W”	2.5
PDINP075SC23-W-0	MF432-SC	SC Board or Panel Mount	62.5/125	“W”	2.5
PDINP075SC63-Q-0	MF432-SC special	SC Board Mount Narrow body	62.5/125	“Q”	2.5
PDINP075ST73-Q-0	MF432ST	ST Low Profile	62.5/125	“Q”	2.5
PDINP075ST83-Q-0	N/A	ST High Profile	62.5/125	“Q”	2.5
PDINP075ST83-W-0	N/A	ST High Profile	62.5/125	“W”	2.5
PDINP075SM13-Q-0	MF432SMA	SMA Board Mount	62.5/125	“Q”	2.5
PDINP0755SAD-V-0-01	N/A	Pigtailed LBR SC/APC	9/125	“V”	2.5
PDINP0751SCA-0-0-01	MF432PT	Pigtailed SC/PC	9/125	—	2.5
PDINP075FC11-W-0	N/A	FC Panel Mount	9/125	“W”	2.5
PDINP0751LCD-V-0-01	N/A	Pigtailed LC w/flange	9/125	“V”	2.5



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Packaging Options

Pigtailing

These 75μm diameter devices can be pigtailed with any size optical fiber that is compatible with its active area size. Pigtails may range in core size from 3μm to 62.5micron. One meter is the standard length, but any length or connector termination may be specified. Pigtails may be terminated with ST, FC, SC and LC connectors with either PC or APC polish.

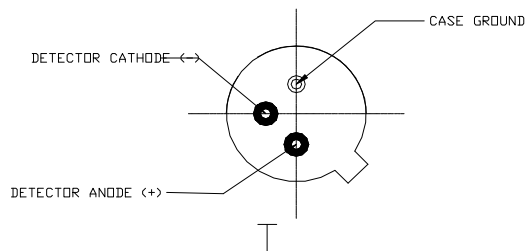
Receptacles

Standard ST, FC , SC as well as SMA housings are available in both panel and board mountable versions. These receptacles **can be optimized for use with both single mode and multimode optical fibers.**

Pinouts

T, W, and R Pinouts are available.

Pinout & Mechanical Dimensions (mm)



PD-LD aligns, then secures each TO-Packaged photodiode within a universal alignment sleeve. This assembly may then be incorporated into a connector receptacle assembly (FC, SC , ST, ect) or into a fiber pigtailed assembly. Some examples of housings are listed here, but other packages are available upon request, including board mountable SC and FC styles. The standard pin-out rotation is to have the TO can tab at 1:00 when the assembly is viewed from the rear and the key slot is up (12:00) .

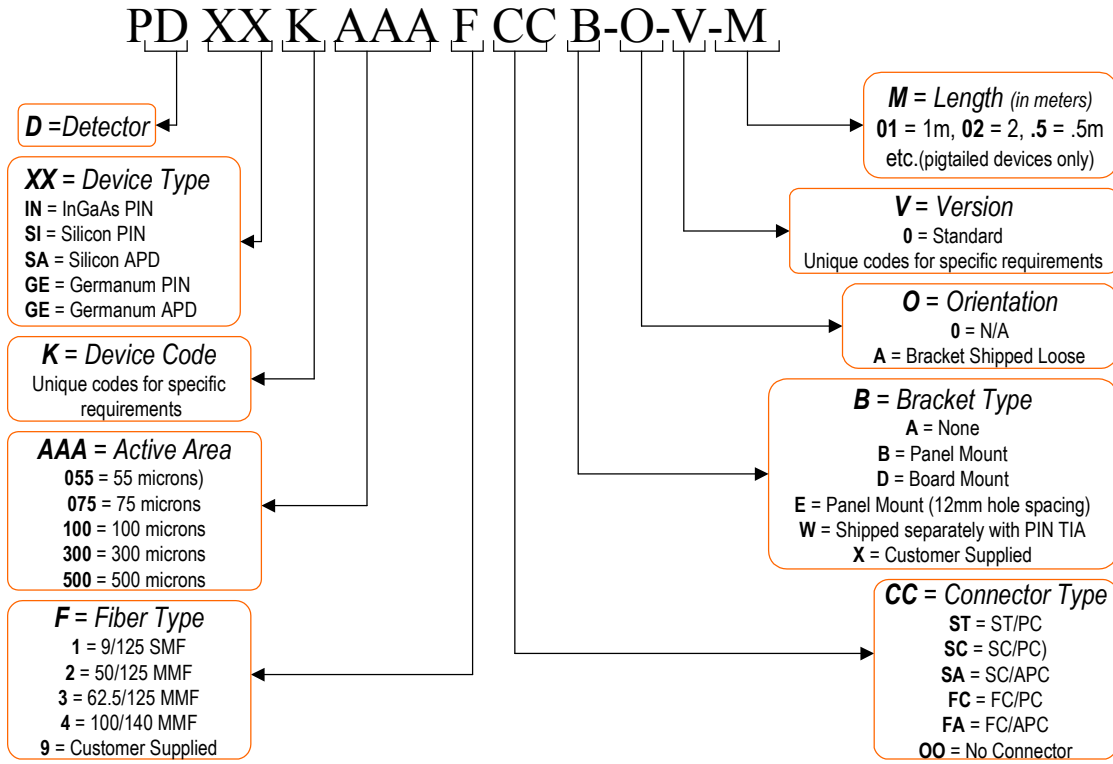
InGaAs Absolute Maximum Ratings (Tc=25°C)			
Parameter	Symbol	Value	Unit
Reverse Current	I_R	2	mA
Reverse Voltage	V_R	20	V
Forward Current	I_F	5.0	mA
Operating Temperature	T_{OPR}	-40 to 85	°C
Storage Temperature	T_{STR}	-40 to 95	°C



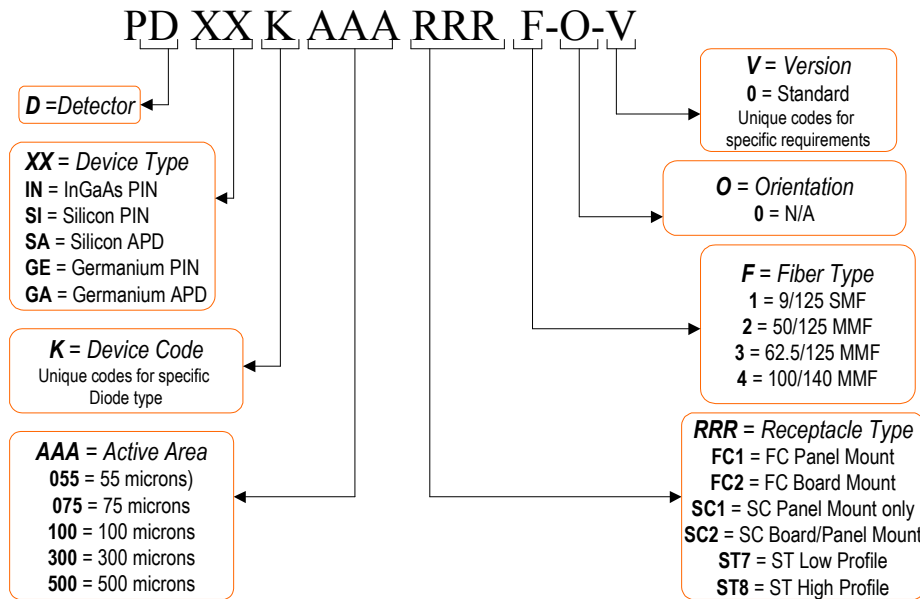
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Ordering Information

Data Legend: Pigtailed Photodiodes & APDs



Data Legend: Receptacle Photodiodes & APDs





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Plots for 75um Diameter InGaAs PIN Photodiodes, INP

