Inc.

PD-LD Inc. offers a variety of standard and custom PIN Photodiodes and APDs is fiber coupled packages. The semiconductors offered are of proven manufacture and design. InGaAs is optimal from 1100 to 1650nm. All devices are available in fiber pigtailed co-axial packages or in connector style receptacle packages.

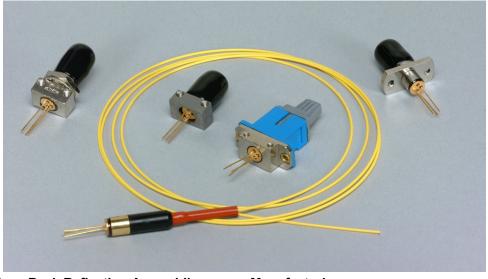
Pigtailing

Devices can be pigtailed with any size optical fiber that is compatible with its active area size. Pigtails may range in core size from 3um to 100micron. One meter is the standard length, but any length or connector termination may specified. Pigtails may terminated with ST, FC, SC and LC connectors with either PC or APC polish.

Receptacles

Standard ST, FC and SC 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.

RoHS Compliant



Low Back Reflection Assemblies

For those applications requiring low optical back reflection, PD-LD offers a series of fiber pigtailed InGaAs detectors. Typically, 55 um or 70um 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 may be minimized. Such devices are ideal for CATV, tap monitor and high speed digital applications.

Manufacturing

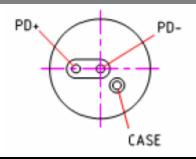
PD-LD Inc. maintains a large inventory of the most popular detector sizes and pinouts. Efficient package designs and manufacturing processes allow PD-LD to rapidly support both small and large volume requirements. Complete 100% testing of all critical parametric device values ensure optimal performance and quality. Not all receptacle packaging styles are represented on this data sheet, so please contact PD-LD for specific needs.

PDINCF0705FAA-0-0-01 70um diameter InGaAs PIN Photodiode (tested at Vr=5V)						
Parameter	Unit	Min.	Typical	Max	Test Conditions	
Wavelength	nm	1100		1620		
Responsivity	A/W	0.85			1550nm	
Back Reflection LBR Pigtailed*	dB			-40	1550nm	
Dark Current	nA		0.2	0.50	Vr=5V, Tc=-25°C	
Capacitance	pF		0.45	0.6		
Bandwidth	GHz	5.0				
Single Second Order beat	dB		-75			
Single Third Order beat	dB		-85			

Notes: Pavg=0dBm MI=0.4 Vr=12V F1=550MHz F2=55MHz Rload=50Ohms

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Pigtailed PDXXKAAAFCCB-O-V-M

Device Type XX	Device Code K	Active Area AAA	Fiber Size F (μm)	Connector CC Pigtail Only	Bracket B Pigtail Only	Orientation O	Version V	Pigtail Length M
IN=InGaAs PIN	CF= 70um diameter with "T" style pin- out	070=70microns	5= Low Back Reflection,-40dB max, 9/125/900um 3=62.5/125 S=9.5um PM Panda T=10.5um PM Panda	00=no connector FA=FC/APC	A=None D= Board Mount	0= not applica- ble A= Bracket shipped loose with unit	0=standard 1= customer specific test- ing	01=1 m

Receptacle PDXXKAAARRRF-O-V

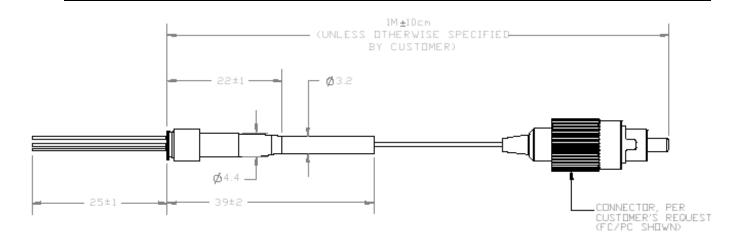
Device Type	Device Code K	Active Area	Receptacle	Fiber	Orientation	Version
XX		AAA	RRR	F	O	V
IN=InGaAs PIN	CF= 70um diameter with "T" style pin-out	070=70microns	FC1=FC Panel mount FC2=FC Board mount SC2= SC Board mount ST6= ST board mount	1=9/125um	M= standard	0=standard 1= customer specific testing

InGaAs Absolute Maximum Ratings (Tc=25°C)						
Parameter	Symbol	Value	Unit			
Reverse Current	I_R	7	mA			
Reverse Voltage	V_R	20	V			
Forward Current	I_{F}	7.0	mA			
Operating Temperature	T_{OPR}	-40 to 85	°C			
Storage Temperature	T_{STR}	-40 to 95	°C			
Input Optical Power	P	8	mW			
Soldering Temperature		260/10	°C/sec			

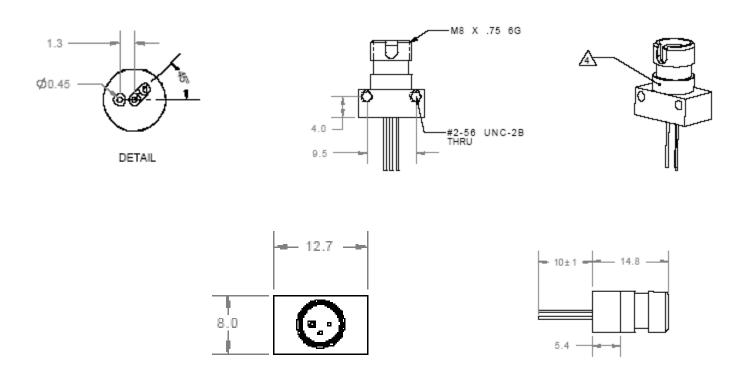
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Mechanical Drawing for Coaxial Fiber Pigtailed PIN Photodiode



FC Board Mount Receptacle Assembly PDINCF070FC21-M-0

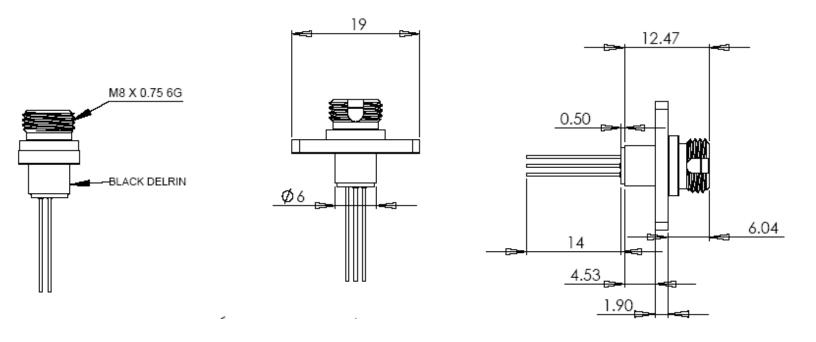


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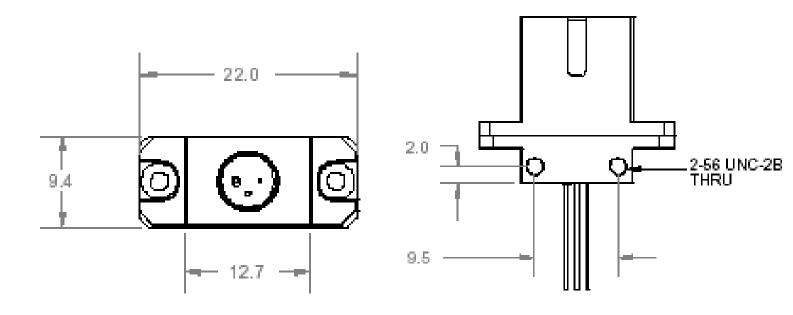
PDINCF0705FAA-0-0-01 Pigtailed PDINCF070FC21-M-0 FC Board mount PDINCF070SC21-M-0 SC Board mount PDINCF070ST61-M-0 ST Board mount

FC Panel Mount Receptacle with "M" Lead Orientation PDINCF070FC11-M-0



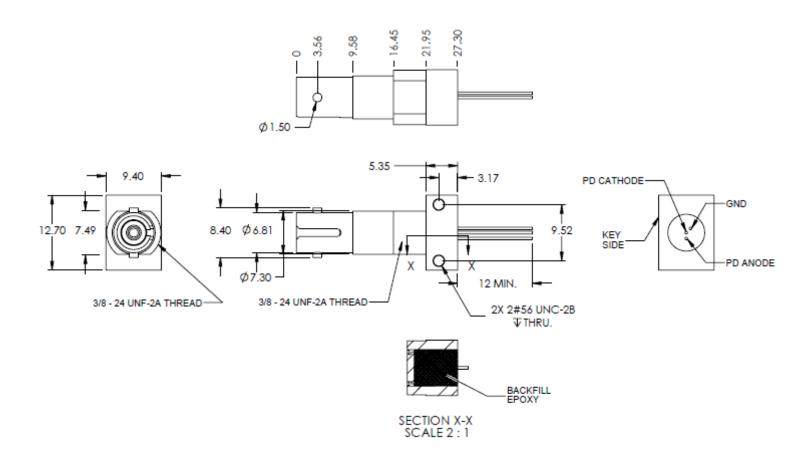
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SC Board Mount Receptacle Assembly



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ST Board Mount Receptacle Assembly PDINCF070ST61-M-0



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