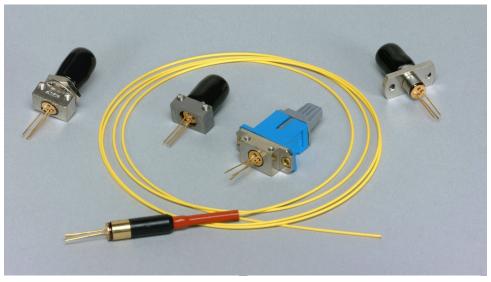


PDIN Series Analog InGaAsP PIN Photodiodes

Analog InGaAs PIN Detectors

PD-LD Inc. offers low noise, high responsivity analog InGaAsP photo detectors in convenient fiber coupled packages. These assemblies incorporate 70 micron diameter active area detector that responds optimally to both 1310 and 1550 nm light sources. Each module contains semiconductor а bandwidth is ideally suited to industry standard transmission rates from DC to 3.0 GHz (typ). The low intermodualtion distortion values make them useful in multi-channel CATV applications. When pigtailed with SMF components are available with low back reflection performance. LBR is specified as -45 db maximum optical return loss.

These modules are available with either bare or connectorized fiber pigtails or in receptacle style housings suitable for board or panel mounting. These high reliability units are operational over industrial environmental conditions.



Applications

- CATV Trunk
- Feeder
- ONU Nodes
- Forward Path AM CATV to 3.0GHz
- Return Path CATV Receivers to 325 and 550 MHz.

Features

- InGaAs Photodiodes with low Intermodulation Distortion (IM2)
- High Linearity
- High Responsivity
- Low capacitance receivers
- -40 to 85°C Operating Range
- FC, ST, SC Receptacle Housing
- Pigtailed with SMF, MMF available on request

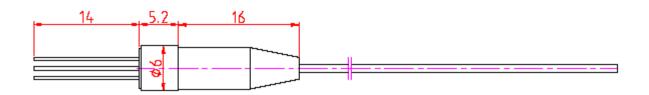
Parameter	Units	Symbol	PDINBJ070 Series (V _R =5V, T=25 C)
Operating Wavelength	nm	Lambda	1100 to 1600 nm
Responsivity -1300 nm -1550 nm	A/W	R	0.80 min 0.80 min
Analog Bandwidth (-3 dB)	GHz	BW _e	3.0 min
Second Order Intermod Distortion Product ¹	dBc	IM2	-70 max
Third Order Intermod Distortion Product	dBc	IM3	-80 max
Dark Current	nA	ld	1 max @25 C 100 max @ 85C
Reverse Voltage	V	V_R	50 max
Breakdown Voltage	V	V _{BD}	55 typ @I _R =10 uA 25 min
Capacitance	pF	С	0.8 max 0.56 typ
Forward Current	mA	I _F	50 max
Optical Back Reflection w/SMF	OBR	dB	-45
Polarization Dependent Loss	PDL	dB	+/- 0.1

Specifications are subject to change without notice. Please contact PD-LD Sales .

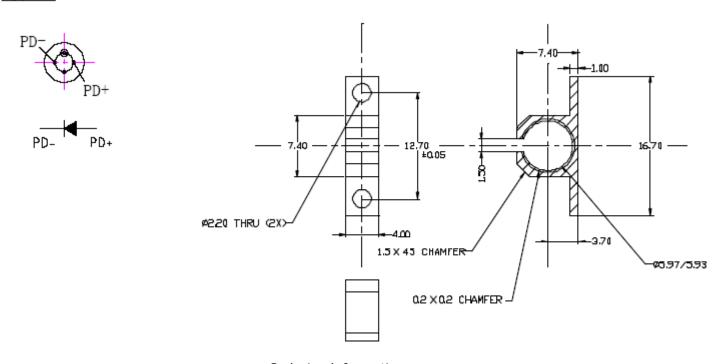
12-10 Analog PIN BJ.Rev2

PDIN Series Analog InGaAsP PIN Photodiodes

Pinout & Mechanical Dimnsions (mm)



Type A



Ordering Information

Fiber Pigtailed Devices

PDINBJ070FCCB-O-V-MM

D= PIN Diode	IN= InGaAs Photodiode	BJ= Analog PIN with "A" pin-out	CC = Connector Type
070= Diameter	F = Fiber Type		ST = ST
	1 = 9/125/900 SMF		SC = SC
	2 = 50/125 MMF		SA = SC/APC
	3 = 62.5/125 MMF		FC = FC PC
	5= 9/125/900 LBR		FA = FC/APC
	9 = Supplied by cust		OO = No Connector

Bracket Type (pigtail only) O = Orientation of Leads V=Version M = Length in meters (pigtail only) A = None Z= Ground at 12:00 O= standard **10** = 10meter

B = Panel Mount **03 =** 3 meters **D** = Board Mount **01** = 1 meter **E** = Panel Mount (12mm hole spacing) .1 = .1 meters 5 = 0.5 meters

W = Shipped Seperately with PIN TIA X = Customer Supplied

Specifications are subject to change without notice. Please contact PD-LD Sales .

12-10 Analog PIN BJ.Rev2