

## InGaAs PIN PD MODULES

## PD-1500 SERIES

InGaAs PIN PHOTODIODE WITH RECEPTACLE

### FEATURES

- ✧ High responsivity for dual windows at 1310 nm and 1550 nm
- ✧ Low dark current
- ✧ Quick pulse response

### APPLICATION

SDH, ATM, LAN

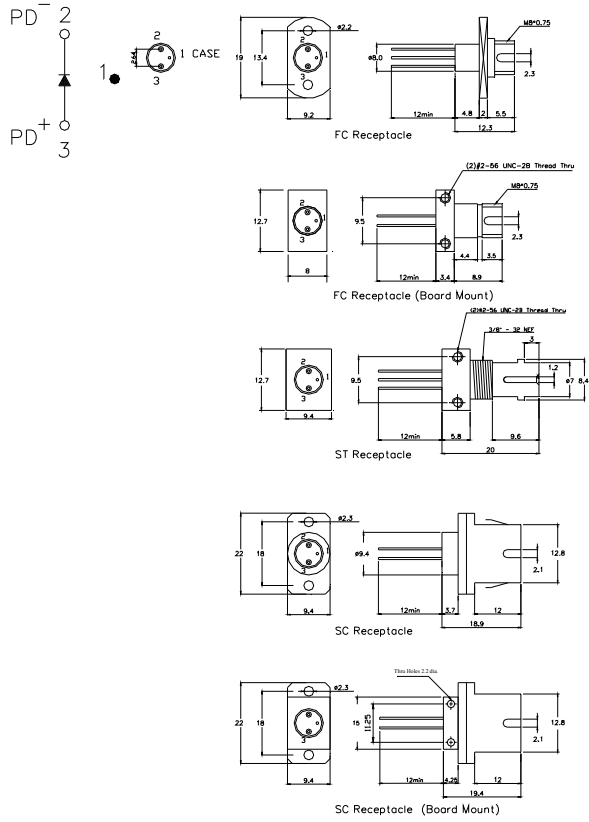
### DESCRIPTION

PD-1500 series are designed for coupling a fiber with high reliable InGaAs PIN photodiodes. PD-1500 series are specially designed as detector for Datacom and Telecom application.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T <sub>C</sub> =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Detection Range	λ	1100	-	1650	nm
R	Responsivity	V <sub>R</sub> =5V, λ=1300 nm	0.8	0.85	-	A/W
I <sub>dark</sub>	Dark Current	V <sub>R</sub> =5V		0.3	0.7	nA
C	Capacitance	V <sub>R</sub> =5V		0.7	0.9	pF
T <sub>r</sub> /T <sub>f</sub>	Rise/Fall Time	V <sub>R</sub> =5V, 10~90%			0.3	ns
BW	Bandwidth	V <sub>R</sub> =5V	2			GHz

Absolute Maximum Ratings (T <sub>C</sub> =25 °C)			
Symbol	Parameter	Ratings	Unit
P <sub>o</sub>	Input Optical Power	10	mW
V <sub>RD</sub>	PD Reverse Voltage	20	V
I <sub>FD</sub>	PD Forward Current	10	mA
T <sub>opr</sub>	Operating Temperature	-40~+85	°C
T <sub>stg</sub>	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



**Note:** 1. Specifications subject to change without notice.  
 2. Other PIN assignment is available upon request.

ORDER INFORMATION

Part No.: P D - 1 5 0 0 - □ □

Code	Wavelength
1	1310/1550 nm
3	1310 nm
5	1550 nm
8	850 nm

Code	Connector Type
F	FC/PC
FB	FC/PC (Board Mount)
T	ST/PC
S	SC/PC
SB	SC/PC (Board Mount)

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Revision History

Version	Subject	Release Date
1.0	Initial datasheet	2002/1/3