



### Features

- InGaAs/InP PIN Photodiode
- High responsivity at 1310nm and 1550nm
- Low dark current
- Fast pulse response
- -40~85°C operating temperature
- Hermetically sealed 3-pin metal case

### Packaging

- FC/ST/SC receptacle packaged
- SM/MM fiber pigtailed with optional FC/ST/SC connector

### Application

- RoHS Compliant available

### Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	20	V
Forward Current	I <sub>F</sub>	2	mA
Reverse Current	I <sub>R</sub>	1	mA
Operating Temperature	T <sub>opr</sub>	-40 ~ 85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ 85	°C

**(All optical data refer to coupled 9/125 μm SM & 50/125 μm MM & 62.5/125 μm MM fiber)**

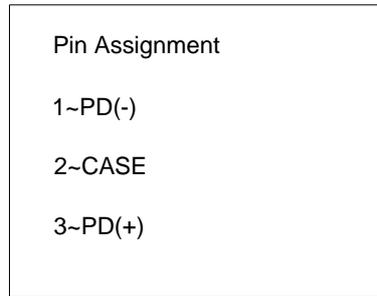
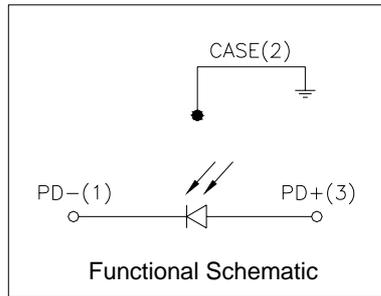
### Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Active Area (Dia)		-	75	-	μm	-
Detection Range		1100	1310	1650	nm	-
Responsivity	R	0.8	0.85	-	A/W	V <sub>R</sub> = 5V, λ = 1310nm
Dark Current	I <sub>dark</sub>	-	0.4	0.8	nA	V <sub>R</sub> = 5V
Capacitance	C <sub>t</sub>	-	0.7	0.9	pF	V <sub>R</sub> = 5V
Rise / Fall Time	T <sub>r</sub> / T <sub>f</sub>	-	-	0.3	ns	V <sub>R</sub> = 5V, 10%~90%
Bandwidth	BW	2	-	-	GHz	V <sub>R</sub> = 5V

#### Note:

1. Pin assignment can be customized.
2. Specifications subject to change without notice.

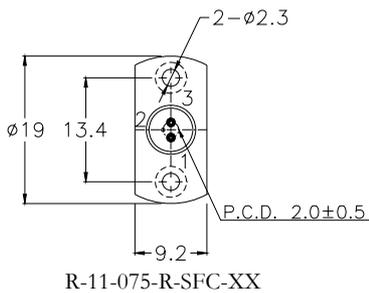
### PD Pin Assignment



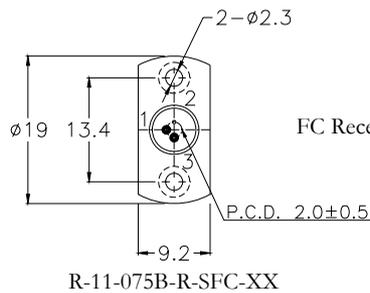
### Mechanic Dimension (Units in mm)

#### R-11-075X-R-SXX-XX

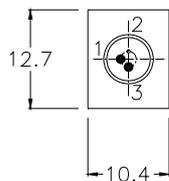
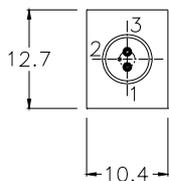
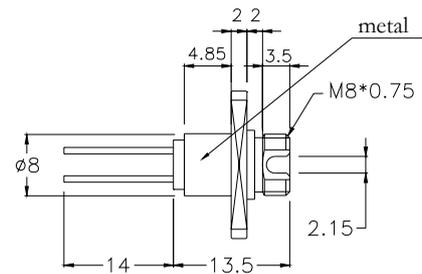
Pin-out: A Type



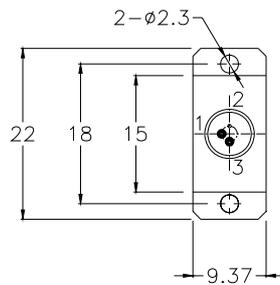
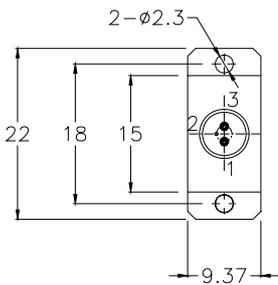
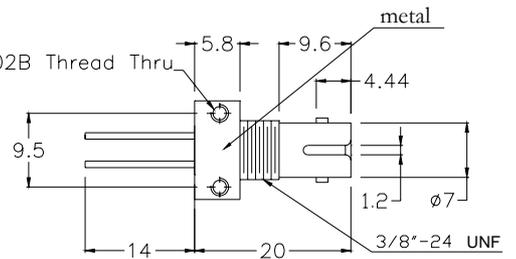
Pin-out: B Type



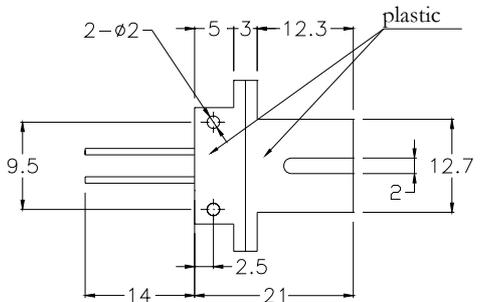
FC Receptacle



ST Receptacle



SC Receptacle



Mechanic Dimension (Units in mm)

R-11-075X-P-XXX-X-XX

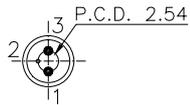
Pin-out: A Type

Pin-out: B Type

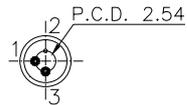
" - ": Flangeless

Connector Type

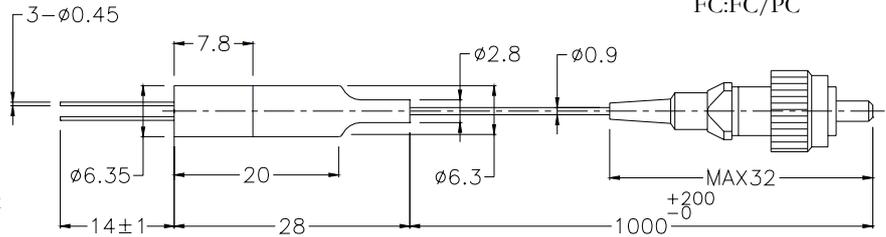
FC:FC/PC



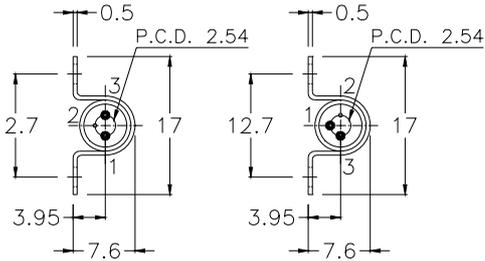
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R-11-075-P-MXX-XX  
R-11-075-P-NXX-XX



R-11-075B-P-SXX-XX  
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R-11-075B-P-NXX-XX

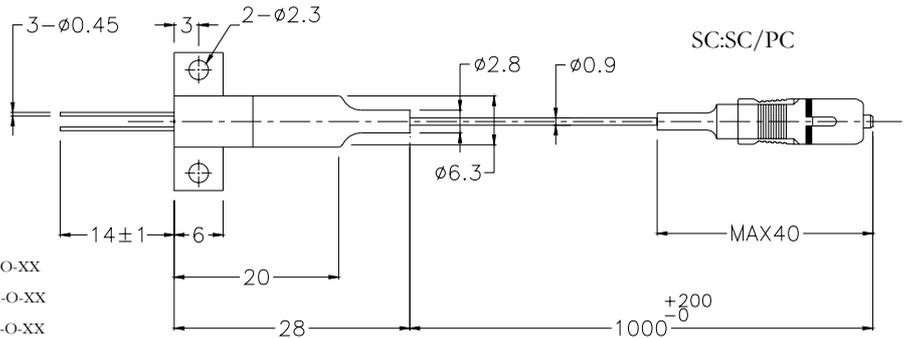


"O": Horizontal (Omega Housing)

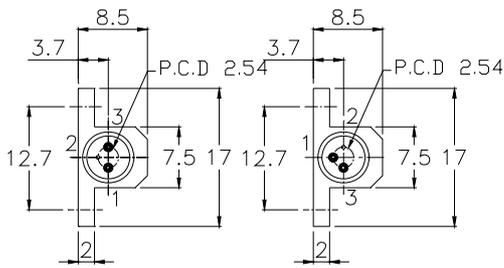


R-11-075-P-SXX-O-XX  
R-11-075-P-MXX-O-XX  
R-11-075-P-NXX-O-XX

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R-11-075B-P-MXX-O-XX  
R-11-075B-P-NXX-O-XX

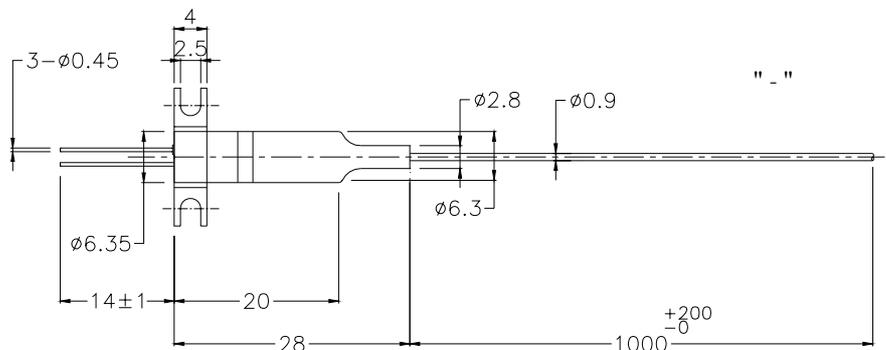
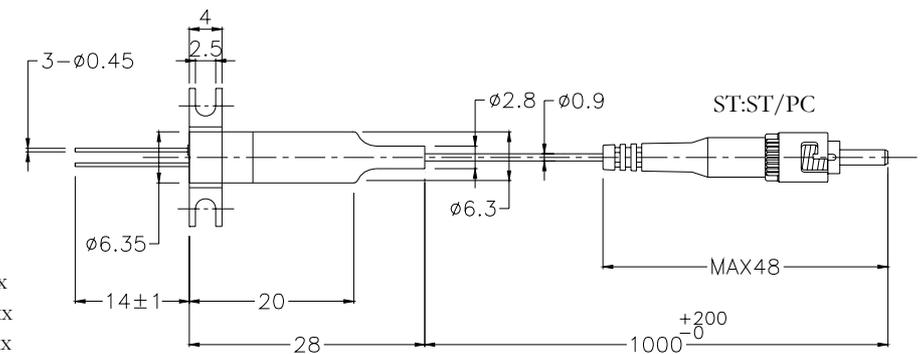


"K": Horizontal (KX Housing)



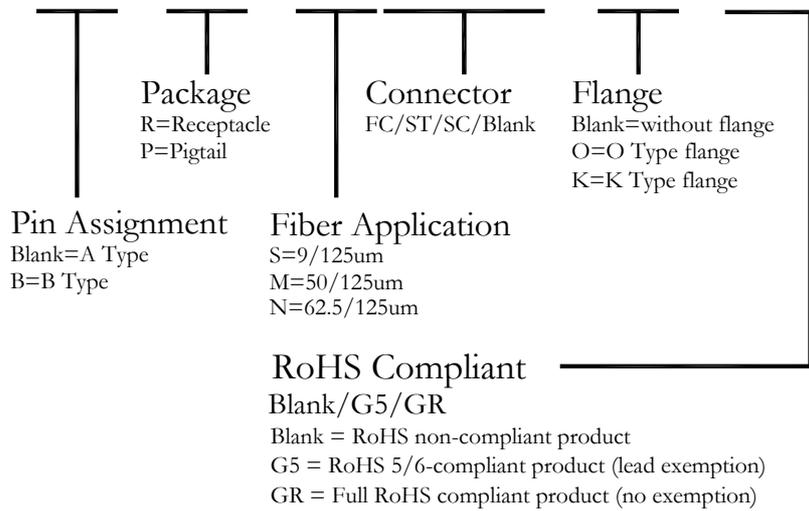
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R-11-075-P-MXX-K-XX  
R-11-075-P-NXX-K-XX

R-11-075B-P-SXX-K-XX  
R-11-075B-P-MXX-K-XX  
R-11-075B-P-NXX-K-XX



Ordering Information

R-11-075X-X-XXX-X-XX



## Warnings

**Handling Precautions:** This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

**Laser Safety:** Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

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