

**InGaAs PIN PD MODULES****PD-1310****InGaAs PIN PHOTODIODE WITH SINGLE-MODE FIBER PIGTAIL****FEATURES**

- <sup>2</sup> High responsivity for dual windows at 1310 nm and 1550 nm
- <sup>2</sup> Low dark current
- <sup>2</sup> Quick pulse response
- <sup>2</sup> Low return loss
- <sup>2</sup> Coaxial Module with 9/125  $\mu$ m Single-Mode Fiber (PD-1310)

**APPLICATION**

SDH, ATM, LAN

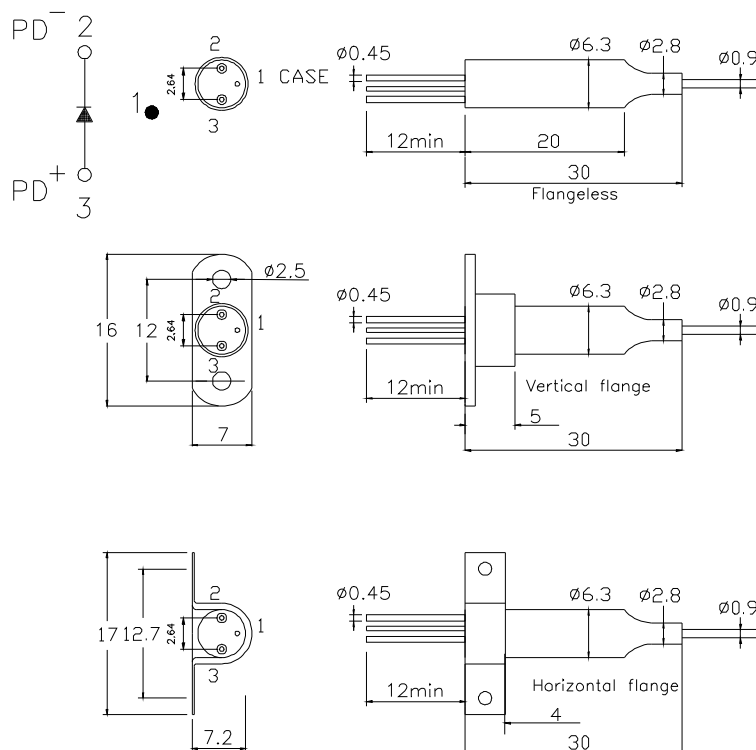
**DESCRIPTION**

PD-1310 series are designed for coupling a single-mode fiber with high reliable InGaAs PIN photodiodes.  
PD-1310 series are specially designed as detector for Datacom and Telecom application.

| <b>ELECTRICAL AND OPTICAL CHARACTERISTICS (Tc=25°C)</b> |                     |                          |      |      |      |      |
|---------------------------------------------------------|---------------------|--------------------------|------|------|------|------|
| Symbol                                                  | Parameter           | Test Conditions          | Min. | Typ. | Max. | Unit |
|                                                         | Detection Range     | $\lambda$                | 1100 | -    | 1650 | nm   |
| R                                                       | Responsivity        | VR=5V, $\lambda$ =1300nm | 0.85 |      | -    | A/W  |
|                                                         |                     | VR=5V, $\lambda$ =1550nm | 0.90 |      | -    | A/W  |
| Idark                                                   | Dark Current        | VR=5V                    |      | 0.3  | 0.7  | nA   |
| C                                                       | Capacitance         | VR=5V                    |      | 0.7  | 1.0  | pF   |
| Tr/Tf                                                   | Rise/Fall Time      | VR=5V, 10~90%            |      |      | 0.5  | ns   |
| ORL                                                     | Optical Return Loss | VR=5V, $\lambda$ =1300nm | 40   |      |      | dB   |
| BW                                                      | Bandwidth           | VR=5V                    | 2    |      |      | GHz  |

| <b>Absolute Maximum Ratings (Tc=25 °C)</b> |                       |         |      |
|--------------------------------------------|-----------------------|---------|------|
| Symbol                                     | Parameter             | Ratings | Unit |
| Po                                         | Input Optical Power   | 10      | mW   |
| VRD                                        | PD Reverse Voltage    | 20      | V    |
| IFD                                        | PD Forward Current    | 10      | mA   |
| Topr                                       | Operating Temperature | -40~+85 | °C   |
| Tstg                                       | 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 3 ☐ 0 - ☐ ☐ ☐

| Code | Fiber                  |
|------|------------------------|
| 0    | 50/125 $\mu\text{m}$   |
| 1    | 9/125 $\mu\text{m}$    |
| 2    | 62.5/125 $\mu\text{m}$ |

| Code | Flange     |
|------|------------|
| V    | Vertical   |
| H    | Horizontal |
| X    | No Flange  |

| Code | Connector Type |
|------|----------------|
| S    | SC/PC          |
| F    | FC/PC          |
| T    | ST/PC          |
| X    | No Connector   |
| SA   | SC/APC         |
| FA   | FC/APC         |