

## Fiber Pigtailed Tap PhotoDiode

### FEATURES

- High Responsivity
- Low Dark Current
- High Stability and Reliability

### APPLICATIONS

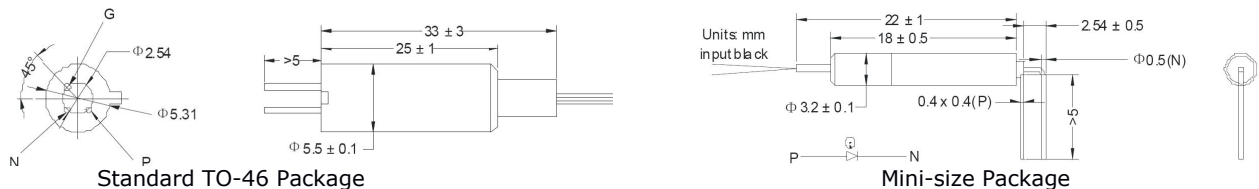
- Optical Networks
- Power Monitoring
- Fiber Sensor

### SPECIFICATIONS

| Parameter                                  | Unit           | Value  |  |
|--|----------------|--|--|
| Center Wavelength                          | nm             | 1310, 1480, 1550, 1590, 1310&1550                          |  |
| Bandwidth                                  | nm             | +/-30  |  |
| Tap Ratio                                  | %              | 0.01%, 0.1%, 1±0.5%, 2±0.6%, 5±1%, 10%, 20%, 30%, 40%, 50% |  |
| Excess Loss                                | dB             | ≤0.8   |  |
| Responsivity@tapped power                  | mA/W           | ≥750   |  |
| Return Loss                                | dB             | ≥40  |  |
| Dark Current<br>(V <sub>R</sub> =5V, 70°C) | Bandwidth=2G   | ≤2.5   |  |
|  | Bandwidth=0.5G | ≤10  |  |
| Capacitance<br>(V <sub>R</sub> =5V, 1MHz)  | Bandwidth=2G   | ≤1   |  |
|  | Bandwidth=0.5G | ≤8   |  |
| Work Mode                                  | Standard       | -  | Backward Light may leak to PD                  |
|  | U Type         | -  | Isolate Backward Light to PD                   |
| Isolation (Output->PD, Only for U Type)    | dB             | ≥25  |  |
| Fiber Type                                 | -              | -  | SMF-28 Fiber or 10/130um DC Fiber (O)          |
|  | -              | -  | 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) |
|  | -              | -  | 25/250um DC Fiber (R) or 25/300um DC Fiber (G) |
| Max. Optical Power on PD (CW)              | mW             | 10   |  |
| Max. Optical Power (CW)                    | mW             | 300  |  |
| Operating Temperature                      | °C             | 0~70   |  |
| Storage Temperature                        | °C             | -40~85   |  |
| Soldering Temperature                      | °C             | ≤260 (<5s, over 2mm from head)                             |  |
| Absolute Max Reverse Voltage               | V              | 20   |  |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
  - Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

### PACKAGE DIMENSION



### ORDERING INFORMATION (PN)

| Wavelength       | Tap Ratio | Bandwidth | Type               | Package     | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |
|------------------|-----------|-----------|--------------------|-------------|------------------------|---------------|--------------|-------------------------|
| 1550=1550nm      | 01=1%     | 20=2G     | U=U Type           | S=Standard  | O=10/130 DC Fiber      | B= Bare fiber | 05=0.5m      | N=Without Connector     |
| 1310=1310nm      | 05=5%     | 05=0.5G   | Blank for Standard | M=Mini-size | T=12/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
| 1590=1590nm      | 10=10%    |           |                    |             | G=25/300 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
| 1315=1310&1550nm | 30=30%    |           |                    |             | Blank for SMF-28 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |