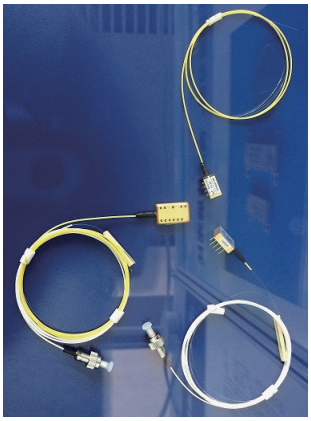
# High Sensitivity PIN-FET Receiver Module



**Feathure**

InGaAs PIN detector plane structure
Fixed transimpedance amplifier circuit
Working wavelength of 1100nm ~ 1650nm
14needle shallow cavity dual-in-line package
With SM or PM fiber coupled,FC/PC FC/APC connector optional
High and low temperature storage testing
Full temperature operating testing

**Application**

a.Fiber optic gyro system
b.Fiber communication system
c.Fiber sensor system

High Sensitivity PIN-FET Receiver Module( Transimpedance: 10-1200Kohms, ,dynanmic range: 25dB, package: 14pins/8 pins)

**Specifications @ 25℃ (+/- 5.0 VDC)**

| **Type** | **Bandwidth*** (MHz) | **Sensitivity** (dBm) | **Transimpedance** (Kohms) | **Dynamic range** (dB) | **Noise** (mV) |
|---|---|---|---|---|---|
| IDPM0010 | 60 | -45 | 10 | 25 | 0.1 |
| IDPM0040 | 40 | -49 | 40 | 25 | 0.1 |
| IDPM0060 | 30 | -50 | 60 | 25 | 0.2 |
| IDPM0400 | 12 | -52 | 400 | 25 | 0.3 |
| IDPM0800 | 8 | -54 | 800 | 25 | 0.5 |
| IDPM1200 | 6 | -55 | 1200 | 25 | 0.7 |
| IDPM1400 | 4 | -56 | 1400 | 25 | 0.9 |

## Parameter @25℃ (+/- 5.0 VDC)

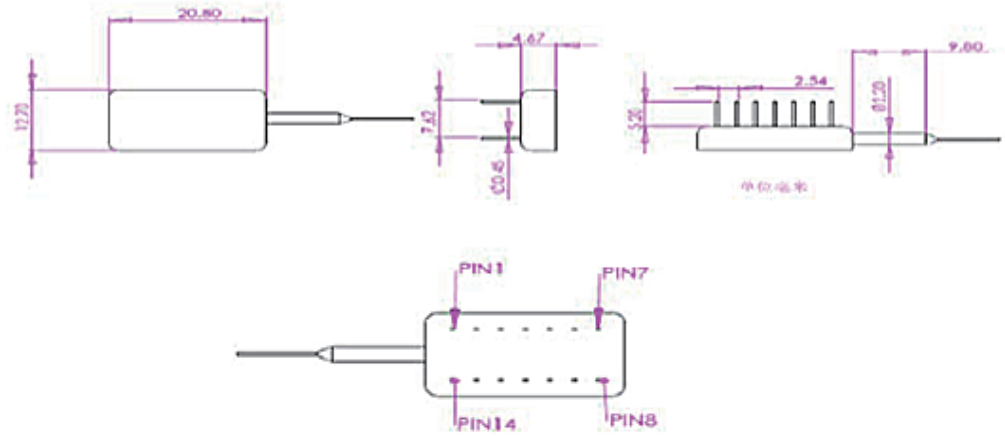
| Parameter | | Unit | Min | Typical | Max |
|---|---|---|---|---|---|
| Dark Current | | nA | / | / | 0.2 |
| PIN responsibility | 1310nm | A/W | 0.9 | / | / |
| | 1550nm | | 0.95 | / | / |
| Sensitivity vs temperature | | dB | / | <1.5 | |
| +5 V Operating current | | mA | / | 25 | 35 |
| -5 V Operating current | | mA | / | 10 | 15 |

## Absolute Maximum Ratings

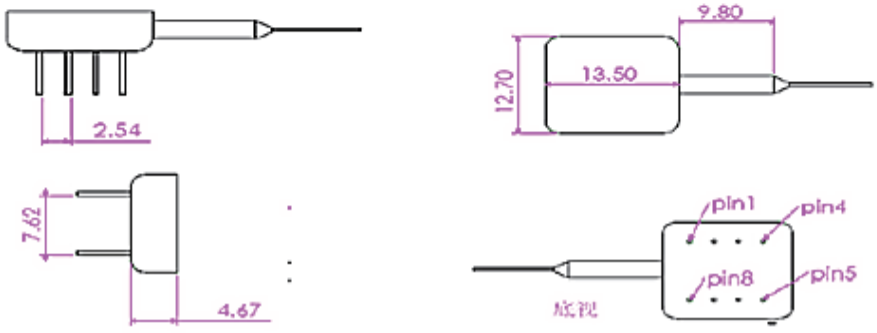
| | Unit | IDPM series |
|---|---|---|
| Operating temperature | ℃ | -40 to 85 |
| Storage temperature | ℃ | -55 to 85 |
| Forward voltage | V | 6 |
| Reverse voltage | V | -6 |
| soldering time260℃ | S | 10 |

### Package

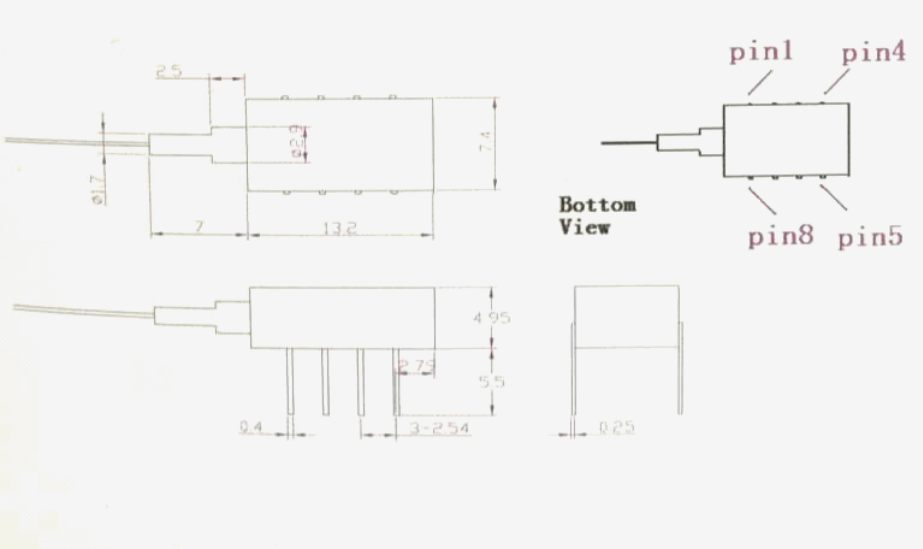
14pin




8pin



## Mini8pin SK-DIP package




## Pin definition

14 pin

| pin | function | pin | function |
|---|---|---|---|
| 1 | -5V（Bias Voltage） | 8 | Grounding |
| 2 | NC | 9 | NC |
| 3 | Grounding | 10 | +5V Power Supply |
| 4 | -5V Power Supply | 11 | NC |
| 5 | Grounding | 12 | NC |
| 6 | NC | 13 | NC |
| 7 | Signal Output | 14 | NC |

8 pin

| pin | function | pin | function |
|---|---|---|---|
| 1 | -5V Power Supply | 5 | Grounding |
| 2 | Grounding | 6 | NC |
| 3 | NC | 7 | +5V Power Supply |
| 4 | Signal Output | 8 | NC |

## Ordering information

| IDPM | xxxx | xx | xxx |
|---|---|---|---|
| | 1200:1200KΩ | SP:SM Fiber,FC/PC Connector | D14:DIP14 |
| | 0800:800KΩ | SN:SM Fiber,None connector | D08:DIP8 |
| | 0600:600KΩ | SA:SM Fiber,FC/APC Connector | MD08:MINI DIP8 |
| | 0400:400KΩ | PA:PM Fiber,FC/APC Connector | |
| | 0060:60KΩ | PP:PM Fiber,FC/PC Connector | |
| | 0040:40KΩ | PN:SM Fiber,None connector | |