

InGaAs PIN-FET High sensitivity receiver ADIP-01001

■ Applications

- a. InGaAs planar PIN detector
- d. Fixed transimpedance, Hybrid integrated circuit
- c. Response wavelength from 1100 to 1700nm
- d. 14pin package with single or multi mode FC/PC connector
- e. Optical fiber transmission system, access network, fiber-optic gyroscope



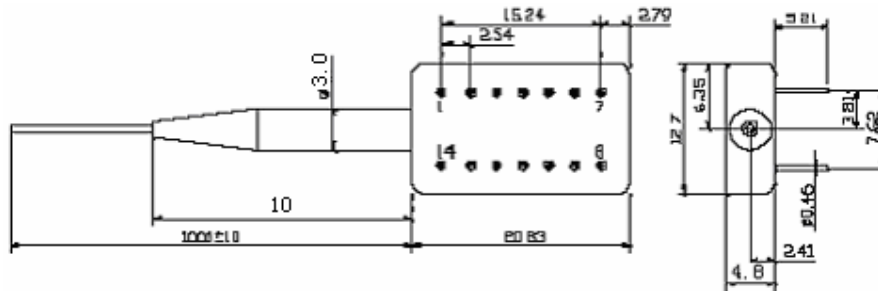
■ Absolute Maximum Ratings (T=25°C)

| Parameter | Max. | Unit |
|----------------------------|------|------|
| Fiber coupled power | 5 | mW |
| Reverse photocurrent | 5 | mA |
| Reverse voltage | -15 | V |
| Forward current | 2 | mA |
| Lead soldering temperature | 260 | °C |
| Lead soldering duration | 10 | s |
| Fiber yield strength | 1 | kgf |
| Fiber bend radius (mm,min) | 30 | mm |

■ Operating Conditions

| Parameter | Min. | Typ. | Max. | Unit |
|------------------------|------|------|------|------|
| Bandwidth (-3dB) | - | 6 | - | |
| Sensitivity | - | -53 | -51 | dBm |
| Transimpedance | - | 1500 | - | kΩ |
| Data Rate | 8 | - | 10 | Mb/s |
| Dynamic Range (dB) | 25 | - | - | dB |
| Noise Voltage | - | - | 0.3 | mV |
| Sensitivity (25~65°C) | - | - | 1.5 | dB |
| PIN Dark Current (-5V) | - | - | 1 | nA |
| Operating Temperature | -45 | - | 80 | °C |
| Storage Temperature | -45 | - | 85 | °C |
| Power Consumption | - | - | 100 | mW |

Notes: Emitter-follower isolator circuit is recommended in testing and use module especially load impedance is less than 1000Ω needs. Recommendation: Data rate is 1.4 times as bandwidth.



Pin connections: “1”Typ (-5V), “3”Ground or CASE, “5、8”Ground,
“4”—5V, “10”+5V, “7”Output, ★Others are not connected