



PD1x series multi-channel photodetectors

OVERVIEW

The PD1x series is a high-speed, amplified, multichannel photodetector designed for a variety of test and measurement applications, including fast optical signal detection. The device integrates x high-performance InGaAs PIN photodiodes for evaluating pulsed lasers and high frequency modulation applications, each channel independent of each other. The enclosure has x FC optical connectors, compatible with FC/PC and FC/APC connectors.

FEATURES

- ◆ Low noise and large dynamic range
- ◆ All-metal shell with excellent shielding performance
- ◆ Number of channels: 4/8/16, etc. Optional
- ◆ Support customization

APPLICATIONS

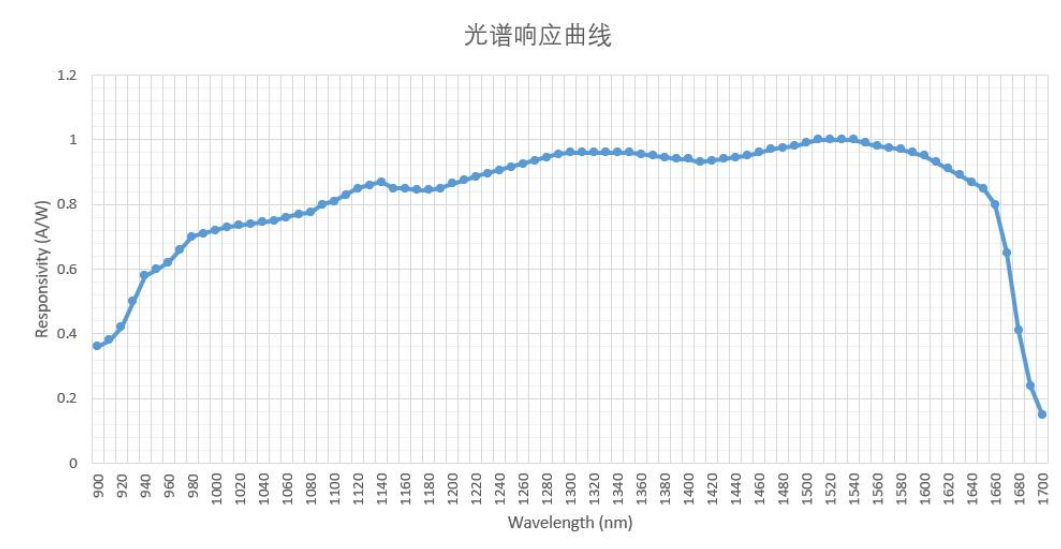
- ◆ Fiber optic sensing
- ◆ Detect fast laser pulses
- ◆ Non-destructive testing
- ◆ Multi-channel optical inspection

SPECIFICATIONS

| Item | PD1x-250M |
|------------------|------------|
| Detector | InGaAs |
| Wavelength Range | 800-1700nm |
| Optical Input | FC/APC |
| Active Area | 75um |

| | |
|-------------------------------|---------------------------------------|
| Peak Response | 0.9A/W @ 1550nm |
| Bandwidth | DC-250MHz |
| Rise Time @50Ω | 1.4ns |
| Maximum gain | 2x10 ⁴ V/A |
| Minimum optical power | -30.0dBm (1μw) |
| Saturated optical power | -6.0dBm (0.25mw) |
| Noise voltage@50Ω | <16mV |
| Maximum output amplitude@Hiz | 4.0V |
| Maximum output amplitude @50Ω | 2.0V |
| Work voltage | 12VDC ±10% |
| Work current | <200mA |
| Output connector | SMA |
| Output impedance | 50Ω |
| Output coupling mode | DC |
| Work temperature | -20~65℃ |
| Storage temperature | -40~85℃ |
| Package Size(4 channel) | 90mm x 60mm x 22mm (长 x 宽 x 厚, 不含连接器) |

RESPONSE CURVE



MECHANICAL DRAWING

