

ROF-PD 10GHz High-Speed Photodetector Light Detection Module

Description

Rof-PD-10G 10GHz high-speed Photodetector optical detection module adopts high-performance 10GHz PIN detector, single mode/multi-mode fiber coupled input, SMA connector output, with high gain, high sensitivity, DC/AC coupled output, gain flat, etc. It is mainly used in high-speed optical fiber transmission system, ROF and optical fiber sensing system.

Features

- Spectral range: 1100~1650nm
- 3dB bandwidth up to 10GHz
- Optical fiber coupling output

Applications

- High-speed optical pulse detection
- High -speed optical communication
- Microwave link
- Brillouin optical fiber sensing system



Parameter

| Parameter | Symbol | Unit | Min | Typ | Max | Test condition |
|-------------------------------|----------------|------|------|-----|------|----------------|
| Response wavelength | | nm | 1100 | | 1650 | |
| -3dB Bandwidth | BW | GHz | 10 | | | |
| Dark circuit | Id | nA | | | 10 | 25°C |
| Responsiveness | R | A/W | 0.8 | | | =1550nm |
| Rise time | T _r | ps | | 35 | | |
| Polarization independent loss | PDL | dB | 0.2 | | 0.6 | |
| Optical return loss | ORL | dB | | | -35 | |
| Gain | G | V/W | | 40 | - | |

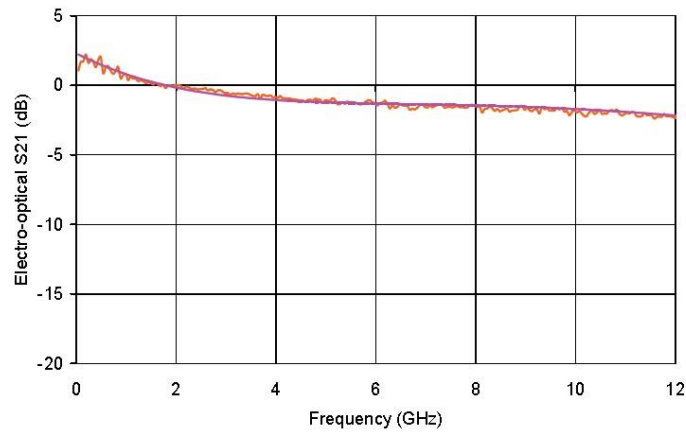


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|------------------------|-------|----|---------------------------------|----|-----|----------|
| Electrical return loss | S22 | dB | | | -10 | DC-10GHz |
| Output impedance | Z | | | 50 | | |
| Operating voltage | Vop | V | DC +12 | | | |
| Dimension | LxWxH | mm | 100 x 100 x 34 | | | |
| Input fiber | | | Single-mode /multimode fiber | | | |
| Fiber connector | | | FC/PC、FC/APC | | | |
| Output connector | | | SMA(f) | | | |

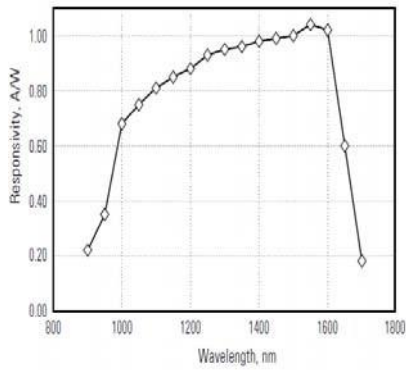
Limit Conditions

| Parameter | Symbol | Unit | Min | Typ | Max |
|-----------------------|--------|------|-----|-----|-----|
| Input optical power | Pin | mW | | | 10 |
| Operating voltage | Vop | V | | 12 | |
| Operating temperature | Top | °C | -10 | | 60 |
| Storage temperature | Tst | °C | -40 | | 85 |
| Humidity | RH | % | 5 | | 90 |

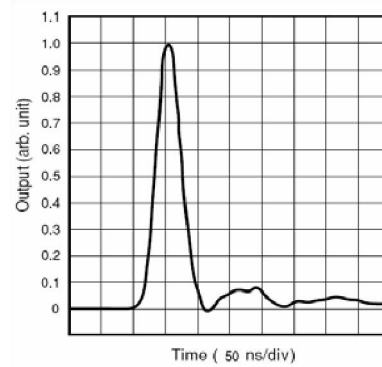
Characteristic curve



Spectral response



Impulse response



Package size



Ordering information

| ROF | PD | 10G | A | XX | XX | XX |
|-----|---------------|-----------------------------|-----------------------------------|---|--|------------------------------|
| | Photodetector | -3dB bandwidth: 10---10 GHz | Operating wavelength: 110~1650 nm | SM----single mode fiber MM----multi mode fiber | Connector type: FP---FC/PC FA---FC/APC | Coupling method: DC AC |

* please contact our seller if you have special requirements