

## BPD480 Balanced Photodetector

### Overview

The BPD480 balanced photodetector contains two photodiodes and a low-noise transimpedance amplifier. The two photodiodes are matched to each other, enabling excellent common-mode rejection ratio. The detector subtracts the two detection signals from each other to eliminate common-mode noise, thereby allowing it to detect minute changes in the effective signal amidst interference noise.

### Features

- Wavelength range: 1000–1700 nm
- Compact housing
- Excellent common-mode rejection ratio
- SMA output connector

### Applications

- OCT
- DAS
- Heterodyne detection
- Optical delay measurement



### Specifications

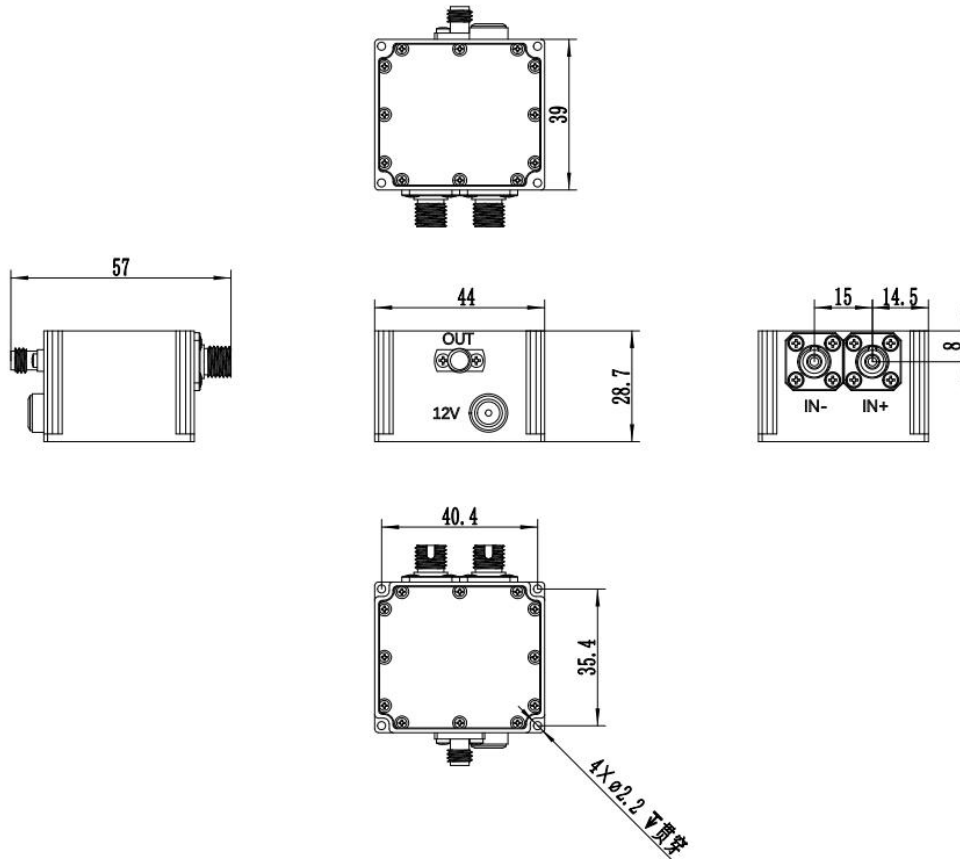
Model	<b>BPD480C-1G</b>	
Material	InGaAs	
Wavelength Range	1000-1700nm	
Input Interface	FC 法兰	
Sensitivity	0.9A/W @1550nm	
Common-Mode Rejection Ratio	>25dB	
Bandwidth <sup>a</sup>	400k-1GHz	
Rise Time <sup>a</sup>	400ps	
Gain <sup>a</sup>	3kV/A	
Saturation Power	252uw	
Noise Voltage <sup>a</sup>	42mVpp	
Equivalent Noise Power	64.1pW/ √ Hz	

General Detector Parameters	Typical value
Maximum Output Amplitude <sup>a</sup>	±0.7V
Operating Voltage	12V
Operating Current	<200mA
Output Impedance	50Ω
Output Coupling Mode	AC
Output Connector	SMA female
Operating Temperature	-20~65°C
Storage Temperature	-40~85°C

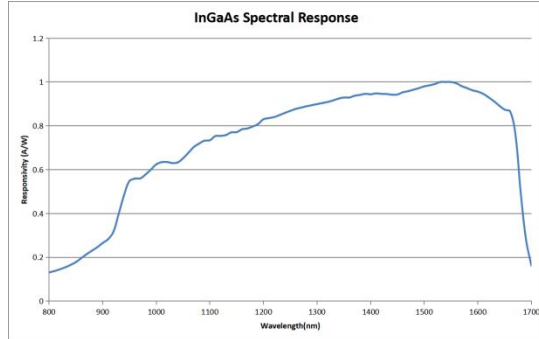
Note:

<sup>a</sup> For a 50Ω load

## Mechanical Dimensions



## Response Curve



*Note: The response curve shows typical values and is for reference only.*

## 发货清单

NO	Item Name	Quantity	Unit	Notes
1	Photoelectric Detector	1	Piece	
2	12V Power Supply	1	Piece	
3	SMA-to-BNC RF Cable	1	Stick	