800-1700nm InGaAs Amplified Photodetector - Fixed Gain



Overview

The InGaAs amplified photodetector has a sensitive range of 800nm~1700nm, fixed gain, and can achieve quantitative photoelectric conversion. It has sufficient gain while ensuring high bandwidth performance. It is suitable for the development of photoelectric detection applications with weak light intensity and fast speed. It has excellent performance and high cost performance. It provides omnidirectional technical support and is often used in near-infrared light measurement.

Features

- Sensing range of 800nm to 1700nm, often used in near-infrared light measurements
- Amplified detector, fixed gain, quantitative photoelectric conversion
- With sufficient gain
- At the same time, it guarantees high bandwidth performance and is suitable for the development of photoelectric detection applications with weak light intensity and fast speed
- Excellent performance, high cost performance, and comprehensive technical support
- Provide non-standard customization services

Application

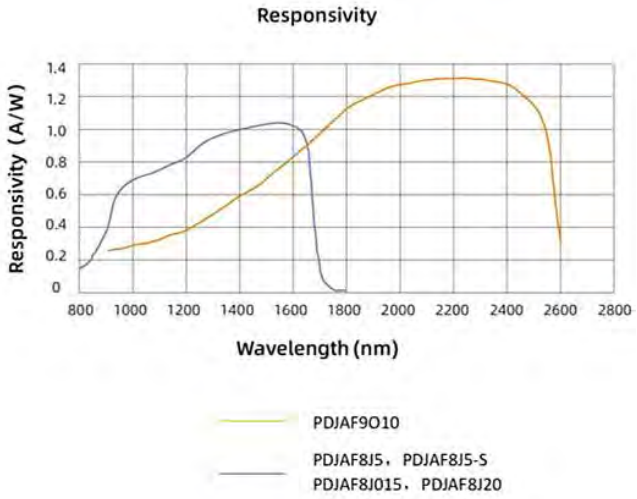
- Near-infrared light measurement

Key Parameter

Parameters	Value				
Wavelength range	800-1700nm				900-2600nm
Photosensitive size	Φ0.5mm	Φ150um	Φ0.5mm	Φ2.0mm	Φ1.0mm
Bandwidth range	DC～150MHz	DC～380MHz	DC～20MHz	DC～5MHz	DC～25MHz
Gain	Hi-Z Load:10kV/A；50Ω Load:5kV/A	Hi-Z Load: 5×104V/A；50Ω Load:2.5×104V/A	1×1011V/A±10%	Hi-Z Load:500kV/A；50Ω Load: 175kV/A	Hi-Z Load: 1×104V/A；50Ω Load:5×103V/A
Signal Amplitude	Hi-Z Load: 0～10V；50Ω Load: 0～5V	Hi-Z Load: 0～10V；50Ω Load: 0～5V	0~10V	Hi-Z Load:0～10V；50Ω Load:0~3.5V	Hi-Z Load: 0～10V；50Ω Load: 0～5V
NEP	$1.2\times10^{-11}W/Hz^{1/2}$	$1.0\times10^{-13}W/Hz^{1/2}$	$2\times10^{-14}W/Hz^{1/2}$	$2.2\times10^{-11}W/Hz^{1/2}$	$1.1\times10^{-11}W/Hz^{1/2}$
Sensitive Surface depth	0.13" (3.3 mm)	0.16" (4.1 mm)	0.07" (1.8 mm)	0.15" (3.7 mm)	0.09" (2.2mm)
Operating temperature	10-40℃		10-50℃		
Storage temperature	-20-70℃	-25-70℃			
Detector Net Weight	0.10kg			0.06kg	0.10kg

Appearance Dimensions	2.79" X 2.07" X 0.89" (70.9 mm X 52.5 mm X 22.5 mm)	2.79" X 1.96" X 0.89" (70.9 mm X 49.8 mm X 22.5 mm)	2.79" X 1.96" X 0.89" (70.9 mm X 49.9 mm X 22.5 mm)	2.79" X 1.96" X 0.8" (70.9 mm X 49.9 mm X 22.5 mm)	2.79" X 1.96" X 0.89" (70.9 mm X 49.8 mm X 22.5 mm)
Power Interface	Power supply	Power Switch	Signal Interface	Mounting Interface	Optical Interface
LUMBERG R SMV3 FEMA LE	LDS12B(DP), ±12 VDC regulated linear power supply, 6W, 220VAC	Sliding Switch With LED Indicator	BNC Female socket	M4×2	SM1×1 SM0.5 ×1

Responsivity Curve



Dimension

