

High-speed photodetector

InGaAs-1.5/3.6um-1G/250ps-S



- **Product Description**

Monitors pulse energy and/or pulse shape of lasers with GHz-level speed, spanning visible and near-infrared wavelengths, and extremely low noise equivalent power (NEP). BNC output connector.

- **Product features**

Ultra-fast photodetector commonly used for visible and near-mid infrared light measurement 、 Bias-type detector, with extremely low noise,

ultra-fast response, and no gain 、 Suitable for intensity-time waveform measurement of high-speed laser pulses or light emission events 、 Excellent performance, high cost-performance ratio, and full technical support 、 Custom services available for non-standard requirements

● Part Number

MP-InGaAs-1.5/3.6um-1G/250ps-S

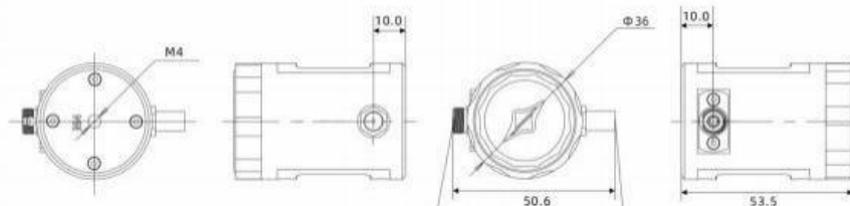
● Application area

High-speed Optical Communications | Quantum Optics | Time-resolved Measurements | Industrial Inspection

● Core parameters

Sensitivity Range	Bandwidth
1500~3600nm	1GHz

● Dimension Drawing



● General Parameters



Design Features

Monitors the output of Q-switched lasers.

Monitors the output of mode-locked lasers.

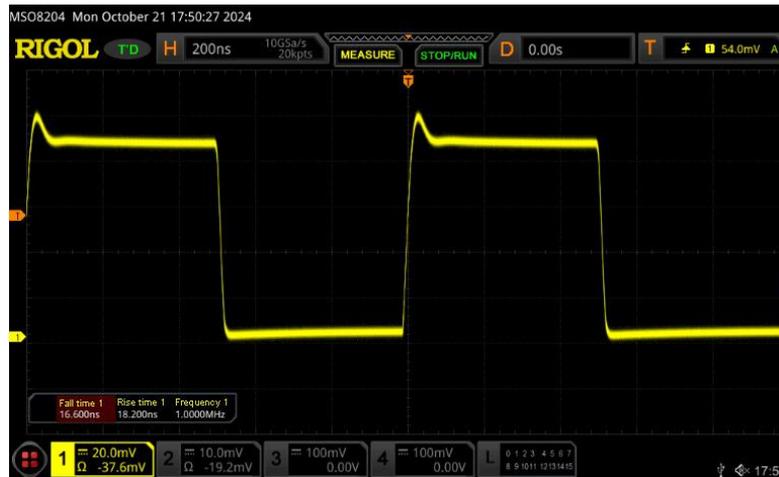
Specifications

Model	Sensitivity Range	Active Area	Rise Time (RT)	Bandwidth (BW)
MP-Si-0.4/0.9um-10G/40ps-S	400~900nm	Φ50um	40ps	10GHz
MP-Si-0.4/0.9um-2.5G/130ps-S		Φ70um	130ps	2.5GHz
MP-InGaAs-0.8/1.7um-2G/140ps-S	800~1700nm	Φ 120um	140ps	2Hz
MP-InGaAs-0.8/1.7um-3G/120ps-S		Φ 100um	120ps	3GHz
MP-InGaAs-0.8/1.7um-6G/60ps-S		Φ50um	60ps	6GHz
MP-InGaAs-0.8/1.7um-20G/17ps-S		Φ45um	17ps	20GHz
MP-InGaAs-0.4/1.7um-1G/250ps-S	400~1700nm	Φ 100um	250ps	1GHz
MP-InGaAs-0.8/2.4um-1G/250ps-S	800~2400nm	Φ 100um	250ps	1GHz
MP-InGaAs-1.5/3.6um-1G/250ps-S	1500~3600nm	Φ 100um	250ps	1GHz

Note:-S: Flat window; -L: Coupling lens; -FC: Fiber optic seat with FC interface;

-SMFC: Single-mode fiber with FC connector. InGaAs-0.8/2.4um-1G/250ps-S

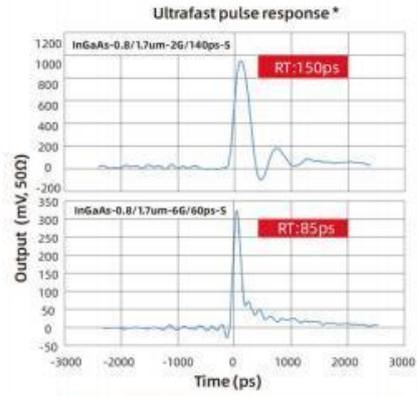
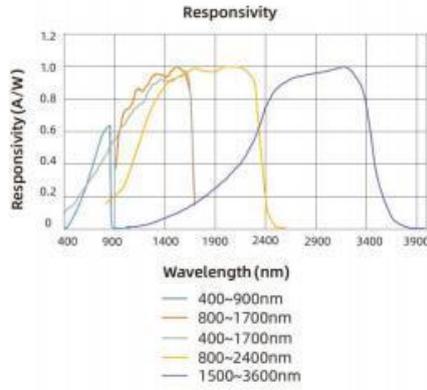
DetectorTest light source: DFB1550, Power: 4mW.



Parameter	Details
Bias Voltage	A23 dry battery, 12V
Operating Impedance	50Ω
Photodetector Features	Flat lens / Coupling lens / FC fiber seat / FC SM fiber connector
Operating / Storage Temperature	0~40°C
Detector Net Weight	0.13kg
Dimensions	Φ 36mm X 53.5mm
Power Supply Battery	A23,12VDC,40mAh
Signal Interface	SMA(DC Coupled)
Mounting Interface	M4 X 1



Response Curve



* Test condition:
 Pulse: SP Solstice, 100fs, 800nm;
 Oscilloscope: RIGOL Ds70504, 5GHz BW, 20GSa/s.