40GHz Photodetector



Description

This product is a high-performance photodetector that performs optical-to-electrical conversion, featuring a 3-dB bandwidth of ≥40 GHz and a responsivity of ≥0.6 A/W. It is suitable for applications in optical communications, advanced instrumentation, microwave photonics, and related technical fields.

Features

- Wide bandwidth
- High responsivity
- Low dark current
- High reliability

Specifications

Product Specifications (All tests are conducted at 25℃ unless otherwise noted)

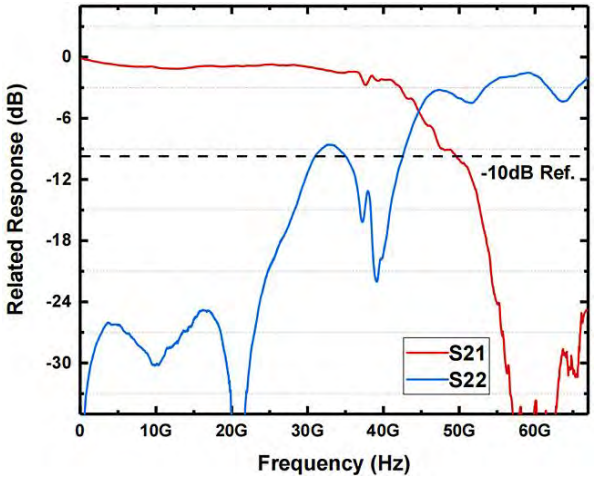
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Operating Wavelength	λ		1260	1550	1565	nm
Responsivity	R	λ = 1550 nm		0.6		A/W
Responsivity	R	λ = 1310 nm		0.7		A/W
Dark Current	Id	Vr = +4 V		10		nA
3 dB Bandwidth	BW	Popt = 0 dBm	35	40		GHz
Saturation Optical Power	Psat			8		dBm

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Maximum Absolute Ratings

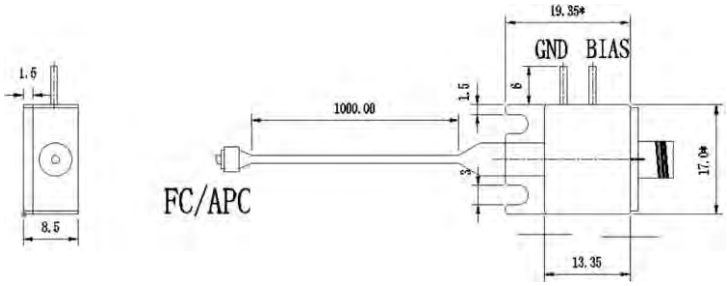
Parameter	Symbol	Rating	Unit
Optical Power	Ps	13	dBm
Reverse Voltage	Vr	6	V
Operating Temperature	Top	-40~+70	℃
Storage Temperature	Tstg	-55~+85	℃

Testing Curve



Dimensions and Pin definitions

unit (mm)



Precautions for Use

- Appropriate ESD protection measures should be taken to avoid electrostatic damage.
- Do not pull the fiber pigtail directly to prevent damage to the device.
- Keep the optical connector clean to avoid dust or other contaminants that may affect performance.