See all 9 Products in Family

320 - 1100nm Amplified Si Free-Space Photodetector

Free-Space Photodetector Module

Stock **#29-517** **2 In Stock**

- 1 + **£490**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**£490.00** each
Qty 6-10	**£440.00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Biased Si Photodetector

Rise Time (ns):

35.00

Physical & Mechanical Properties

Dimensions (mm):

58.5 x 62.2 x 36

Active Area (mm^2):
75.40 (Ø9.8mm)

Optical Properties

Wavelength Range (nm):
320 - 1100

Electrical

Noise Equivalent Power NEP ($W/Hz^{1/2}$):
2.6-71.7x10^-14

Bandwidth (Hz):
DC-11*10^6 (DC-11 MHz)

Hardware & Interface Connectivity

Power Supply:
#29-519

Environmental & Durability Factors

Operating Temperature (°C):
10 - 50

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Compact Design for Easy System Integration
- Si or InGaAs Photodetectors Ranging from 200 - 1700nm
- Biased or Amplified Models Available

Free-Space Photodetector Modules feature biased or amplified Si diodes, or a high speed InGaAs diode that cover the UV, VIS, NIR, and SWIR spectra from 200 – 1700nm. These detectors provide fast rise times and bandwidths for immediate detection for pulsed lasers, the Si version features 1ns rise times and bandwidths up to 350MHz and the InGaAs detectors feature 350ps rise times and a 5GHz bandwidth. The amplified Si detectors provide rise times from 10 – 35ns and a built-in fixed gain, low-noise transimpedance amplifier allowing for measurement of weak or low power sources down to femtowatt levels. Free-Space Photodetector Modules feature a compact design for easy integration into space constrained systems, an M4 mounting thread for post mounting, and a detachable 1” diameter optic mount for integration of filters and lenses. These modules are ideal for monitoring fast pulsed lasers, modulated CW optical sources, and applications requiring free-space optical detection, such as LIDAR.

Note: The biased Si and InGaAs photodetector modules (#29-514, #29-515, and #29-516) require a 12V battery (not included) for power and operation. The amplified Si photodetector modules (#29-517, and #29-518) require a ±12VDC power supply (#29-519), sold separately. When measuring high speed signals, a 50Ω terminating resistor is recommended.

;