

FP1015a High-Power Photodetector



Product Brief

APPLICATIONS

- RF Photonic Links
- Photonic RF Generation
- Sensing
- Communications

FEATURES

- Up To 100mW Input
- Compact, low-profile package
- Single-mode fiber
- 15 GHz bandwidth

OVERVIEW

Freedom Photonics' FP1015a high-power photodetector is designed for high power applications with up to 100mW input optical power. It is packaged into a compact, low-profile package with integrated bias circuit and 15 GHz small-signal 3-dB bandwidth.

The photodiode has been developed for demanding high optical power applications such as RF photonic links, Sensing applications or Photonic generation of RF signals at up to 20 dBm RF power at 10 GHz.

SPECIFICATIONS

Parameter	min	typ	max	unit
Input Optical Power			20	dBm
Wavelength Range	1480		1620	nm
Responsivity	0.3	0.5		A/W
Bandwidth	12	15		GHz
Dark Current		200	700	nA
Operating Temperature	-5		75	°C
Fiber Connection			Single-mode SF28 fiber	

