

12Gb/s High-Speed PIN Photodetector

P/N: PD971-12

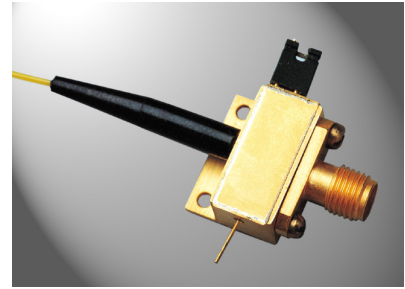


Features

- Operating wavelength 1100 ~ 1650nm
- DC ~ >12GHz broadband width
- High responsivity, planar GaInAs/InP PD structure
- SM-28 fiber coupled with FC/UPC fiber connector

Applications

- High data rate 10Gb/s systems
- High speed OE & wideband systems



Main Specifications (T=25°C)

Parameter Description	Symbol	Min.	Typ.	Max.
Spectral response (μm)	λ	1.0		1.65
Dark current (nA, VR= -5V)	Id		0.1	1.0
Responsivity (A/W, VR= -5V)	Re	0.8	0.85	
Bandwidth (GHz, VR= -5V)	F(-3dB)		12	

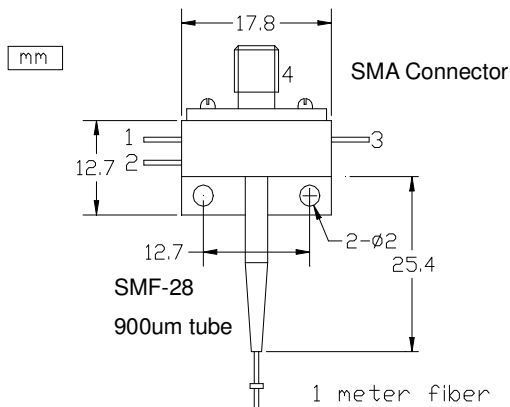
Pin Configurations:

1	Anode (N)
2	Case ground (P)
3	NC
4	RF signal out

Absolute Maximum Ratings (T=25°C):

Operating temperature (°C)	-20 ~ +70
Storage temperature (°C)	-40 ~ +85
Lead soldering temperature (°C)	260
Lead soldering duration (s)	10
Fiber yield strength (kgf)	1
Fiber bend radius (mm)	≥ 30

Package Dimensions (Top View):



Ordering Information:

P/N: PD971-12-X/Y

X/Y: Connector Type

For example:

P/N: PD971-12-FC/UPC with FC/UPC connector