

Fiber Pigtailed Photodiode (FPPD)

Rev 11G

Description

The Fiber Pigtailed Photodiode is a coaxially packaged photoelectrical component. It features high responsivity, low dark current and good temperature performance over a wide wavelength range. It can be applied for channel power monitoring in DWDM system, in-line optical network switching/protection monitoring (OLP), reconfigurable optical add/drop multiplexer (ROADM), and gain attenuation monitoring in EDFAs and networks's power detection, etc.

Key Features

- High Responsivity
- Low Dark Current
- Good Temperature Performance

Applications

- DWDM System
- Optical Sensing System

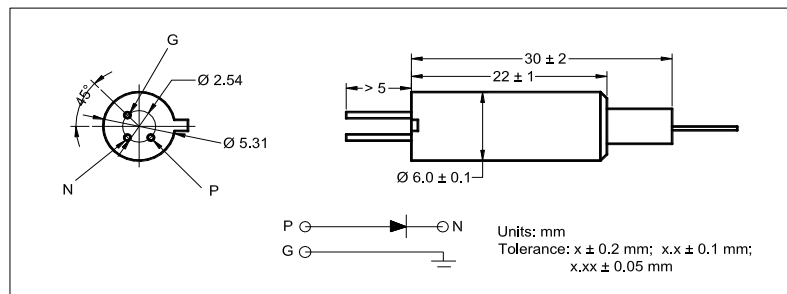
Specifications

Parameter	Unit	Value	
Center Wavelength (λ_c)	nm	1310	
Operating Wavelength Range (λ_{op})	nm	$\lambda_c \pm 50$ nm	
Min. Responsivity	A/W	0.75	
Min. Return Loss ¹	dB	45	
Max. Input power	mW	10	
Dark Current (@ 70 °C, - 5 V bias)	0.5 GHz Bandwidth	nA	8
	2.0 GHz Bandwidth	nA	2
Fiber Type	-	SMF-28 Fiber	
Operating Temperature	°C	0 to + 70	
Storage Temperature	°C	- 40 to + 85	
Soldering Temperature (Over 2 mm from head, less than 5s)	°C	≤ 260	

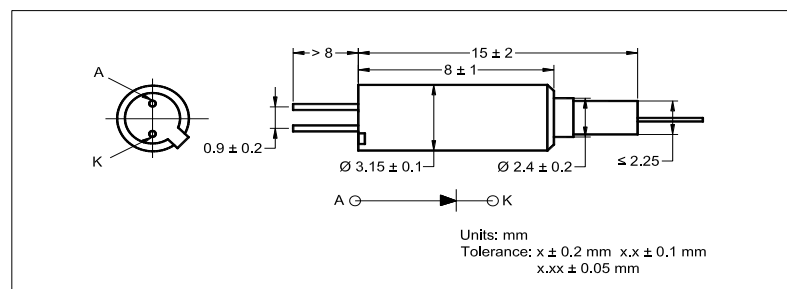
¹RL is 5 dB lower for each connector added.

Package Dimensions

TO-46 Package



Mini Size Package



Ordering Information

FPPD-①①-②②-③-④-⑤-⑥

①①: Center Wavelength

55 - 1550 nm

31 - 1310 nm

②②: Bandwidth

05 - 0.5 GHz

20 - 2.0 GHz

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Jacket

B - 250 μ m Bare Fiber

⑤: Fiber Length

1 - 1.0 m

S - Specify

⑥: Package Type

1 - TO-46 Package

2 - Mini Size Package