

# Pigtailed Photodiode

CORNING

## Features and Benefits

Integrated, Low-Loss Device

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Broad Spectral Bandwidth

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Compact Design

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Corning's pigtailed photodiodes are designed for optical power monitoring applications in dense wavelength division multiplexing (DWDM) systems, reconfigurable Add/Drop modules, erbium doped fiber amplifier (EDFA) modules, and other modules that need power monitoring. The applications also include network links and FTTx receivers.

## Standards

RoHS	Free of hazardous substances according to RoHS2011/65/EU
Design and Test Criteria	Product is qualified to Telcordia GR-1209-CORE and GR-1221-CORE



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## Specifications

Parameters			
	Minimum	Typical	Maximum
Wavelength Range	C Band, L Band, or O, C, and L Band		
Responsivity (for 1310 nm)	0.80 A/W		
Responsivity (for 1550 nm)	0.85 A/W		
Dark Current (25°C)		1.0 nA	2.0 nA
Capacitance		0.7 pF	1.0 pF
Bandwidth <sup>1</sup>	1.00 GHz		
Back Reflection			-30 dB
Operating Temperature		0°C to +70°C	
Storage Temperature		-40°C to +85°C	

**Notes:**  
<sup>1</sup> -3 dB point into a 50 Ohm load

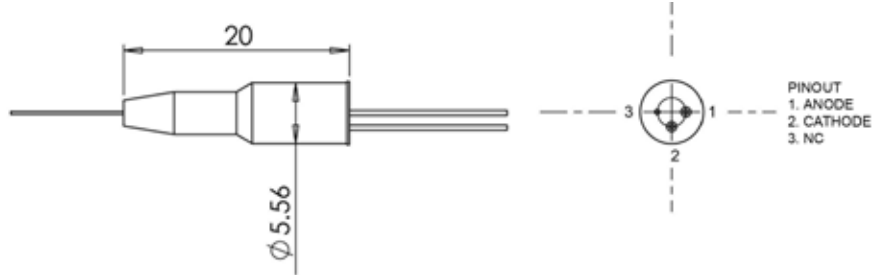
Absolute Maximum Ratings		
	Minimum	Maximum
Forward Current		10 mA
Reverse Current		10 mA
Reverse Voltage		25 V
Power Dissipation		100 mW
Soldering Temperature		250°C
Soldering Time		10 s
Fiber Bending Radius	30 mm	

Shipping Package		
Packaging Dimensions	Fiber Type	Pigtail Length
(Φ) 5.6 mm x (L) 27 mm Customized mounting brackets are available upon request.	Corning® MF-28e®	1 m (Standard)

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## Ordering Information

### Pigtailed Photodiode



- 1 Select Type**  
 1: Cylindrical  
 2: With Mounting Bracket  
 9: Custom

- 2 Select Wavelength**  
 31: 1310 nm  
 55: 1550 nm  
 59: 1590 nm

- 3 Select Bandwidth**  
 1: 1 GHz  
 2: 2 GHz  
 9: Custom

- 4 Select Fiber Type**  
 0: 250 μm Bare Fiber  
 1: 900 μm Loose Tube  
 2: 900 μm Tight Fiber  
 9: Others

- 5 Select Connector\***  
 A: None  
 K: LC/APC  
 L: LC/PC  
 P: FC/PC  
 Q: FC/APC  
 S: SC/PC  
 T: SC/APC  
 U: MU/PC  
 Z: Others

- 6 Select Customization**  
 000: Running number used for special types or custom made

### Note:

\*Specifications do not include connector loss



**These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. Please contact OEM sales at +1-408-736-6900 or oemsales@corning.com and visit [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) for sales support.**

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