

# Isolator WDM

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## Features and Benefits

Wide Operating Wavelength

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Wide Temperature Range

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Low Insertion Loss & High Isolation

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Compact Size

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Epoxy-Free in Optical Path

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Corning's hybrid isolator WDM is a combination of a wavelength division multiplexer and an isolator in a compact package. This product has an extremely low insertion loss and a variety of fiber options. Corning's isolator WDM is ideal for fiber optic amplifier as well as fiber laser applications.

## Standards

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



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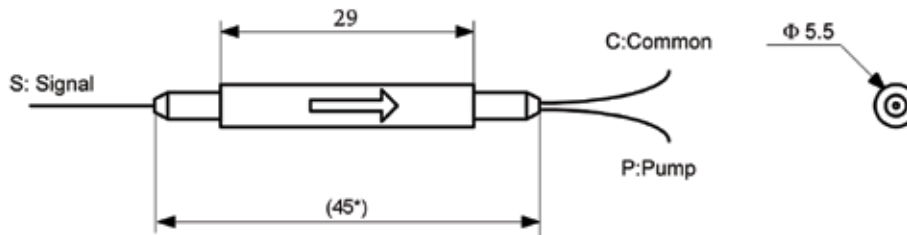
## Specifications – Isolator WDM

Parameters	Single-Stage			Dual-Stage		
	Minimum	Typical	Maximum	Minimum	Typical	Maximum
Signal Wavelength ( $\lambda_s$ )	1530-1570 nm			1530-1570 nm		
Pump Wavelength ( $\lambda_p$ )	970-990 nm			970-990 nm		
Isolation (C- >S, $\lambda_s$ , 23°C, All SOP)	28 dB	-	-	45 dB		
Isolation (S- >C, $\lambda_p$ , 23°C, All SOP)	28 dB			28 dB		
Insertion Loss (S- >C, $\lambda_s$ , 0-70°C, All SOP)			1.2 dB			1.3 dB
Insertion Loss (P- >C, $\lambda_p$ , 0-70°C, All SOP)			0.6 dB			0.6 dB
WDL			0.5 dB			0.5 dB
PDL			0.10 dB			0.10 dB
PMD			0.1 ps			0.1 ps
Directivity (S- >P, $\lambda_s$ , All SOP)	55 dB			55 dB		
Return Loss (For SM fiber)	50 dB			50 dB		
Power Handling			500 mW			500 mW
Operating Temperature	0°C to +70°C			0°C to +70°C		
Storage Temperature	-40°C to +85°C			-40°C to +85°C		

Shipping Package		
Packaging Dimensions	Fiber Type	Pigtail Length
( $\Phi$ ) 5.5 mm x (L) 45* mm Including boots	Pump Port, Common Port: Corning® HI 1060; Signal Port: Corning® MF-28e®; Special fibers available upon request	1 m (Standard)

**Note:**

\*250  $\mu$ m bare fiber; our 900  $\mu$ m buffer solution is at 49 mm length



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## Ordering Information

### Isolator WDM



**1 Select Type**  
1: Single-Stage  
2: Dual-Stage

**2 Select Pump Wavelength**  
1: 980 nm  
2: 1480 nm

**3 Select Pump Fiber Type**  
1: 1060 Fiber  
2: Double-Cladding Fiber  
3: Multimode Fiber  
4: Other

**4 Select Fiber Type**  
0: 250  $\mu$ m Bare Fiber  
1: 900  $\mu$ m Loose Tube

**5 Select Connector\***  
A: None  
L: LC/PC  
K: LC/APC  
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](mailto:oemsales@corning.com) and visit [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) for sales support.**



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-408-736-6900 • [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) • Email: [oemsales@corning.com](mailto:oemsales@corning.com)

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