

# Band Filters (Four Channel/Skip 1)

CORNING

## Features and Benefits

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Low PDL

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Low Insertion Loss

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Low Polarization Sensitivity

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High Optical Power Handling

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## Standards

**RoHS**

Free of hazardous substances according to RoHS2011/65/EU

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**Design and Test Criteria**

Product is qualified to Telcordia GR-1209-CORE and GR-1221-CORE

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Corning's four-skip-1 Band Wavelength Multiplexing filter products are designed to improve insertion loss for express channels in a variety of applications. These Band WDM products utilize proprietary thin-film filter technology to achieve state-of-the-art wavelength stability and high channel isolation. These products offer exceptionally low insertion loss, thermal stability, low polarization sensitivity, and high directivity. Corning's Band WDM is designed to meet the most demanding Telcordia requirements for performance and reliability. Custom wavelengths and channel configurations are available.



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## Specifications – 100 and 200 GHz

Parameters	Minimum	Typical	Maximum
Pass Channel Bandwidth 100 GHz	2.7 nm		
Pass Channel Bandwidth 200 GHz	5.4 nm		
Express Channel Bandwidth 100 GHz			5.3 nm
Express Channel Bandwidth 200 GHz			10.6 nm
Pass Channel Insertion Loss		1.0 dB	1.2 dB
Express Channels Insertion Loss		0.4 dB	0.6 dB
Passband Flatness - Ripple		0.3 dB	0.5 dB
Pass Channel Isolation for Adjacent Express Channels	15 db	20 db	
Pass Channel Isolation for Non-Adjacent Express Channels	30 dB	40 dB	
Isolation of Drop Channels at Express Ports	12 dB	15 dB	
Optical Return Loss	40 dB	45 dB	
Directivity	45 dB		
PDL			0.2 dB
PMD			0.2 ps
Maximum Optical Power		300 mW	
Operating Temperature Range		-5°C to +65°C	
Storage Temperature Range		-40°C to +85°C	
Tensile Load		5N Maximum	

Shipping Package		
Packaging Dimensions	Fiber Type	Pigtail Length
<52.5 mm x 4.6 Φmm (Including boots)	Fiber Type: Corning® SMF-28e® or compatible	1 m (Standard)

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## Ordering Information

Band Filters (4 Skip 1)

B W  -  0   -

1 2 3 4 5 6

### 1 Select Channel Spacing

- 1: 100 GHz Skip 1
- 2: 200 GHz Skip 1

### 2 Select Configuration

- 1: Mux
- 2: DeMux

### 3 Select Wavelength Channel

NN: According to ITU Channel with Starting Channel

### 4 Select Package Type

- 0: 250  $\mu$ m Tube
- 1: 900  $\mu$ m Tube
- 2: 250  $\mu$ m Case
- 3: 900  $\mu$ m Case

### 5 Select Connector\*

- A: None
- L: LC/PC
- P: FC/PC
- Q: FC/APC
- S: SC/PC
- T: SC/APC
- U: MU/PC

### 6 Select Customization

- 000: Standard or 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.**



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