

# Single Channel DWDM (100 GHz)

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## Features and Benefits

- High Isolation
- Low Insertion Loss
- Bi-directional
- Epoxy Free in Optical Path
- Completely Passive

## 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

Corning offers high performance Single Channel Dense WDM for ITU channel spacing applications. The thin film filter DWDM Series of products utilize proprietary technology to deliver exceptional field performance. Single channel DWDM products are available in standard ITU wavelengths from 1528 to 1565 nm. Custom wavelengths and channel configurations are available upon request.



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## Specifications

Parameters	Minimum	Typical	Maximum
Passband Width	$\lambda_c \pm 0.12$ nm		
Pass Channel Insertion Loss		1.0 dB	1.4 dB
Reflection Channel Loss		0.4 dB	0.5 dB
Adjacent Channel Isolation	25 dB	30 dB	
Non-Adjacent Channel Isolation	40 dB	45 dB	
Isolation of Pass Channel @ Reflection Port	12 dB	15 dB	
Optical Return Loss	45 dB	50 dB	
Directivity	50 dB		
PDL			0.1 dB
PMD			0.1 ps
Maximum Optical Power		300 mW	
Operating Temperature Range		-5°C to +65°C	
Storage Temperature Range		-40°C to +85°C	
Tensile Load (900 $\mu$ m Buffered)		5N Maximum	

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

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## Ordering Information

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**1** **2** **3** **4** **5** **6**

**1** Select Channel Spacing

1: 100 GHz  
Z: Others

**2** Select ITU Grid

2: Standard  
5: 50 GHz Shift (less in frequency) from ITU grid

**3** Select Wavelength Channel

00: Non-ITU Specifications  
NN: ITU Channel, for example,  
193.0 THz, NN=30

**4** Select Package Type

0: 250 µm Tube  
1: 900 µm Tube  
2: 250 µm Case  
3: 900 µm Case  
4: LGX® or Rack Mount  
5: 3 mm Case  
6: 2 mm Case  
Z: Others

**5** Select Connector\*

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

**6** Select Customization

000: Standard  
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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