Fused WDMs

CORNING

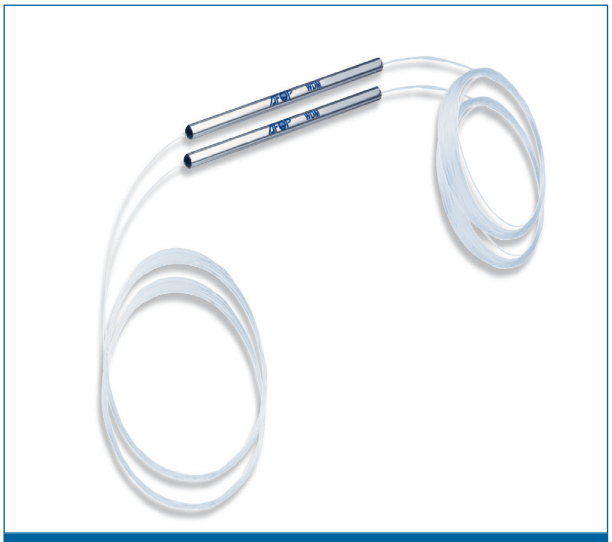
Features and Benefits

Stability Over Temperature
Compact Size and Low PDL
Wide Spectral Channel
Greater Bandpass

The 821 Series of fused WDMs offers superior performance and long-term reliability. These components are highly stable across the stated range, exhibiting low insertion loss and high isolation. The Corning ultra series provides the highest performance available in the industry for critical WDM applications. Our singlemode WDMs are available with bare fiber or high-quality buffered fiber pigtails for ease of use.

Standards

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



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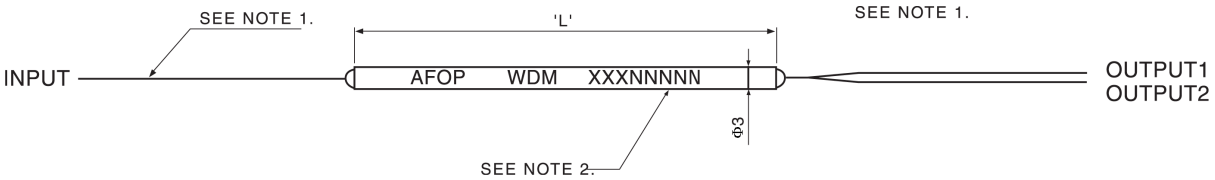
Specifications

Parameters	Specifications
Bandpass Width	See Table
Directivity	< -55 dB
Return Loss	< -55 dB
PMD	< 0.1 ps
Pigtail Tensile Strength	5N
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Storage Relative Humidity	20-90 (%RH)



Notes:

1. Fiber length is 1 meter ± 10 cm
2. "XXXNNNNN" is the production serial number

Packaging Dimensions	Standard Size	
Fiber Type	250 µm	900 µm
Tube Length (L)	60 mm	65 mm
Color Code		
Input	Clear	White
Output 1 (Short Wavelength)	Black	Black
Output 2 (Long Wavelength)	Clear	White

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Maximum Insertion Loss Conversion Loss Table (dB) (Excluding Connector Loss)

Operating Bandwidth		IL* (max) dB	Isolation (min) dB	PDL* (max) dB	WDL* (max) dB	TDL ** (max) dB	P/N Reference
980/1550nm[1] Premium	970-990 nm	0.10	20	0.02	0.07	0.02	821-NN00-2LX00
Ultra	1528-1563 nm	0.05	20	0.02	0.04	0.02	821-NN00-3LX00
980/1550nm[2] Premium	970-990 nm	0.30	20	0.10	0.15	0.05	821-NN00-2GX00
Ultra	1528-1563 nm	0.20	20	0.05	0.15	0.05	821-NN00-3GX00
1480/1550nm Premium	1475-1485 nm	0.40	15	0.08	0.30	0.05	821-NN00-2HX00
Ultra	1545-1555 nm	0.25	17	0.08	0.20	0.05	821-NN00-3HX00
1310-1550nm Premium	1290-1330 nm	0.35	16.5	0.08	0.30	0.05	821-NN00-2EX00
Ultra	1528-1563 nm	0.25	17.5	0.08	0.20	0.05	821-NN00-3EX00

Notes:

[1] Fiber type is Lucent® BFO5635-02 (HI 980)
[2] Fiber type is Corning® Flexcor (HI 1060)
** Insertion Loss (IL), Wavelength Dependent Loss (WDL), and Polarization Dependent Loss (PDL) measured at 23°C without connectors.*
*** Temperature Dependent Loss (TDL) measured as change in IL from -5°C to +75°C.*
Max IL measured over operating wavelength range (not including PDL and TDL)

Ordering Information

Fused WDMs

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(1) (2) (3) (4) (5)

1 Select Packaging Type
1: 250 mm Tube
2: 900 mm Tube
3: 900 mm Ruggedized
4: 1.6 mm Ruggedized
5: 3 mm Ruggedized

2 Select Configuration
1: 1x2
2: 2x2

3 Select Grade
2: Premium
3: Ultra

4 Select WDM Type
E: 1310/1550
G: 980/15502
H: 1480/1550
L : 980/15501

5 Select Connector Type*
0: None
K: LC/APC
L: LC/PC
P: FC/PC
Q: FC/APC
S: SC/PC
T: SC/APC
U: MU/PC

Notes:

** Specifications do not include connector loss.*

RoHS COMPLIANT

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 for sales support.

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