

SpectraMux® – Coarse WDM (Single Channel)

CORNING

Features and Benefits

20 nm Channel Separation

Bi - Directional

High Isolation

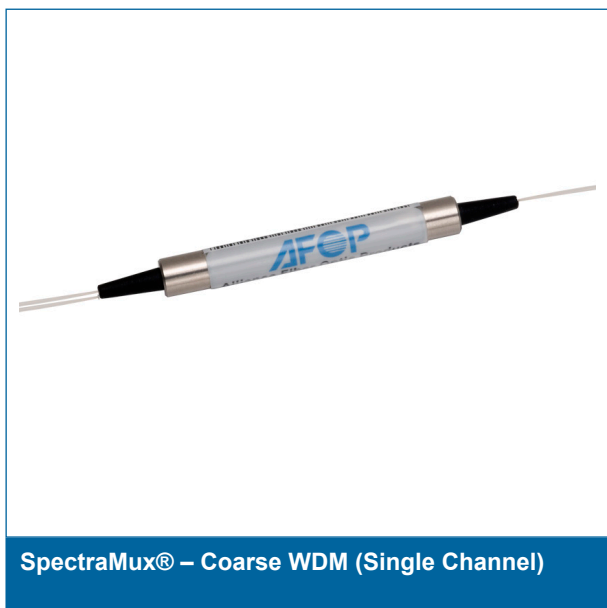
Low Insertion Loss

Epoxy-Free Optical Path

Corning introduces the Spectramux® family of products, which are designed for cost effective multiwavelength network applications. Channel spacing of 20 nm with wide bandpass characteristics allow for non-temperature controlled lasers to be used in transmitters. Based on Corning's proven thin film technology, SpectraMux CWDMs allow for four and eight wavelengths to be used for uni- or bi-directional transmission. Like all Corning DWDM products, these devices are designed for long life service under the most demanding field conditions. Most connector types are available for terminated ends.

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 (Eight-Channel)	Minimum	Typical	Maximum
Passband Width	$\lambda_c \pm 6.5 \text{ nm}$		
Express Channel Insertion Loss		0.4 dB	0.5 dB
Reflection Channel Loss		0.3 dB	0.4 dB
Adjacent Channel Isolation	30 dB		
Non-Adjacent Channel Isolation	40 dB		
Isolation of Pass Channel at Reflection Port	15 dB		
Optical Return Loss	45 dB	50 dB	
Directivity	50 dB		
PDL			0.1 dB
PMD			0.1 ps
Maximum Maximum Optical Power		300 mW	
Storage Temperature Range		-40°C to +85°C	
Tensile Load (900 μm Buffered)		5N Maximum	
*Specifications do not include connector loss			
** 1271, 1291, ...band are available upon request.			

Packaging Dimensions	Fiber Type	Pigtail Length
38 mm x 5.0 Φ mm (Not Including Boots)	Fiber Type: Corning® SMF-28e® or compatible, 900 μm	1 m (Standard)

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Ordering Information

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C W 4 - 0 2 -

1 Select Mux or DeMux

- 1: Mux
- 2: DeMux

2 Select Package Type

- 0: mm Tube
- 1: 900 mm Tube
- 2: 250 mm Case
- 3: 900 mm Case

3 Select Connector Type*

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

4 Select ITU Starting Wavelength**

- 1: 1471 nm
- 2: 1491 nm
- 3: 1511 nm
- 4: 1531 nm
- 5: 1551 nm
- 6: 1571 nm
- 7: 1591 nm
- 8: 1611 nm

5 Select Customization

- 000: Standard
- Running number used for special types or custom made

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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Spec Sheet CAH-094-AEN
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