

SpectraMux® – Coarse WDM (Four Channel)

CORNING

Features and Benefits

20 nm Channel Separation

Bi - Directional

Low Insertion Loss

High Isolation

Epoxy-Free Optical Path

Express Channel Available

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 Low Loss)	Minimum	Typical	Maximum
Center Wavelength λ_c		1471, 1491, 1511, 1531 nm or 1511, 1531, 1551, 1571 nm or 1551, 1571, 1591, 1611 nm	
Pass Channel Insertion Loss		1.6 dB	2.0 dB
Express Channel Insertion Loss (Optional)			2.5 dB
Passband Width	13 nm	15 nm	
Passband Flatness		0.3 dB	0.5 dB
Adjacent Channel Isolation	30 dB	40 dB	
Non-Adjacent Channel Isolation	40 dB	50 dB	
Optical Return Loss	50 dB		
Directivity	50 dB		
PDL			0.2 dB
PMD			0.2 ps
Maximum Maximum Optical Power		300 mW	
Operating Temperature Range		-5°C to +65°C	
Storage Temperature Range		-40°C to +85°C	
Tensile Load (900 μ m Buffered)		5N Maximum	
*Specifications do not include connector loss			

Packaging Dimensions	Fiber Type	Pigtail Length
126 mm x 93 mm x 15 mm	Fiber Type: Corning® SMF-28e® or compatible, 900 μ m	1 m (Standard)

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Ordering Information

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C W 4 - 1 2 -

1 2 3 4 5 6

1 Select Mux or DeMux

- 1: Mux
- 2: DeMux

2 Select Package Type

- 2: 250 mm Box
- 3: 900 mm Box
- 4: LGX Rack Mounted Module

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 UTI Starting Wavelength

- 1: 1471 nm
- 3: 1511 nm
- 5: 1551 nm

5 Select Optional Channel

- 0: No Express
- 1: With Express

6 Select Customization

- 00: 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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