

# SpectraMux® – Coarse WDM (Single-Channel OADM)

CORNING

## Features and Benefits

Low Insertion Loss

Bi-directional

High Isolation

20 nm Channel Separation

Epoxy Free in 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.

## 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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# SpectraMux<sup>®</sup> – Coarse WDM (Single-Channel OADM)

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## Specifications

| Parameters                    | Minimum | Typical        | Maximum |
|-------------------------------|---------|----------------|---------|
| Center Wavelength $\lambda_c$ |         | 1471-1611 nm   |         |
| Drop Channel Insertion Loss   |         | 0.6 dB         | 1.0 dB  |
| Add Channel Insertion Loss    |         | 0.6 dB         | 1.0 dB  |
| Passband Width                | 13 nm   | 15 nm          |         |
| Passband Flatness             |         | 0.3 dB         | 0.5 dB  |
| Drop/Add Channel Isolation    | 30 dB   | 40 dB          |         |
| Express Channel Isolation     | 30 dB   |                |         |
| Optical Return Loss           | 50 dB   |                |         |
| Directivity                   | 50 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 |
| 126 mm x 93 mm x 15 mm | Fiber Type: Corning <sup>®</sup> SMF-28e <sup>®</sup> or compatible,<br>900 $\mu$ m | 1 m            |



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## Ordering Information

SpectraMux® Coarse WDM (Single-Channel OADM)

C W 4 - 3 1 2        
1 2 3 4

### 1 Select Package Type

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

### 2 Select Connector

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

### 3 Select UTI 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

### 4 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](mailto:oemsales@corning.com) and visit [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) for sales support.***



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