

# SpectraMux® – Compact Coarse WDM (Four Channel)

CORNING

## Features and Benefits

<1.5 dB Insertion Loss

Bi - Directional

Express Channel Available

Epoxy-Free Optical Path

Ultra Stable & Highly Reliable

Extended Operating Temperature Available

Corning introduces the new SpectraMux® Compact Coarse WDM (CCWDM) 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. The CCWDMs allow for four and eight wavelengths to be used for uni- or bi-directional transmissions. Custom wavelengths and channel configurations are available.

## 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



SpectraMux® – Compact Coarse WDM (Four Channel)

# SpectraMux® – Compact Coarse WDM (Four Channel)

CORNING

## Specifications

Parameters (Four-Channel)	Minimum	Typical	Maximum
Center Wavelength $\lambda_c$		1291, 1311, 1331, 1351 nm 1471, 1491, 1511, 1531 nm or 1511, 1531, 1551, 1571 nm or 1551, 1571, 1591, 1611 nm	
Pass Channel Insertion Loss		1.0 dB	1.5 dB
Express Channel Insertion Loss (Optional)			1.5 dB
Passband Width	13 nm	15 nm	
Passband Flatness		0.2 dB	0.3 dB
Adjacent Channel Isolation	30 dB	40 dB	
Non-Adjacent Channel Isolation	45 dB	50 dB	
Optical Return Loss	45 dB	50 dB	
Directivity	55 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 $\mu$ m Buffered)		5N Maximum	
*Specifications do not include connector loss			

Packaging Dimensions	Fiber Type	Pigtail Length
41 mm x 28 mm x 6 mm	Fiber Type: Corning® SMF-28e® or compatible, 900 $\mu$ m	1 m (Standard)

# SpectraMux® – Compact Coarse WDM (Four Channel)

CORNING

## Ordering Information

SpectraMux® – Compact Coarse WDM (Four Channel)

C W 4 -  1 8  -

1 2 3 4 5

### 1 Select Mux or DeMux

- 1: Mux
- 2: DeMux

### 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 ITU Starting Wavelength

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

### 4 Select Optional Channel

- 0: No Express
- 1: With Express

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



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-408-736-6900 • [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) • Email: [oemsales@corning.com](mailto:oemsales@corning.com)

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.

Spec Sheet CAH-087\_AEN

Page 3 | Revision date 2016-10-31

CORNING