

NanoMux – Coarse WDM (Four-Channel Single and Four-Channel Pair)

CORNING

Features and Benefits

<1.5 dB Insertion Loss

Bi-directional

Epoxy-Free Optical Path

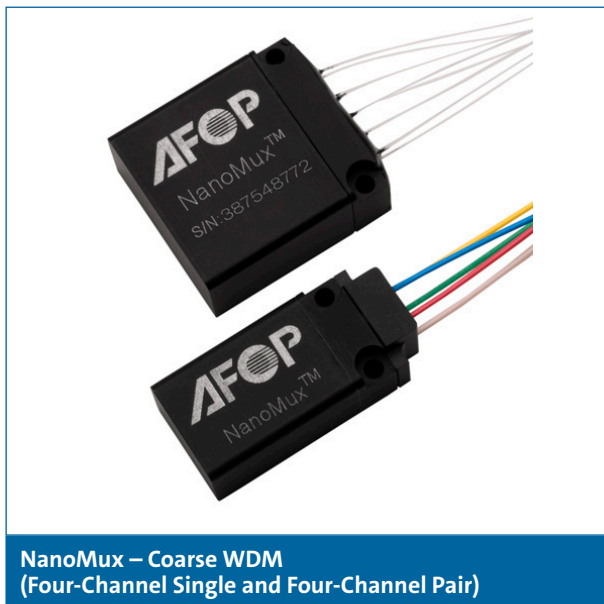
Ultra Stable and Highly Reliable

Extended Operating Temperature Available

Corning introduces the new NanoMux 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 wavelengths to be used for uni- or bi-directional transmissions. Corning's CCWDMs are designed to meet or exceed telcordia requirements for performance and reliability. 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



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Specifications

Parameters	Minimum	Typical	Maximum
Center Wavelength λ_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		0.3 db	0.5 db
Adjacent Channel Isolation	30 dB	40 dB	
Non-Adjacent Channel Isolation	45 dB	50 dB	
Optical Return Loss	45 dB	50 dB	
Directivity	50 dB	55 dB	
PDL			0.25 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 (600 μ m Buffered)		5N Maximum	
*Specifications do not include connector loss			

Packaging Dimensions	Fiber Type	Pigtail Length
25 mm x 11.5 mm x 8 mm (Single) 25 mm x 19.5 mm x 8.7 mm (Pair)	Fiber Type: Corning® SMF-28e® or compatible, 900 μ m	1 m

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Ordering Information

NanoMux – Coarse WDM (Four-Channel Single and Four-Channel Pair)

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1 Select Mux or DeMux
 1: Mux
 2: DeMux
 0: Mux/DeMux Pair

2 Select Channel Count
 4 Channel

3 Select Fiber Type
 1: 250 mm Bare Fiber
 2: 600 mm Loose Tube

4 Select Connector*
 None
 L: LC/PC P: FC/PC
 Q: FC/APC S: SC/PC
 T: SC/APC U: MU/PC

5 Select ITU Starting Wavelength
 B: 1291 nm 1: 1471 nm
 3: 1511 nm 5: 1551 nm
 9: Custom

6 Select Optional Channel
 0: No Express
 1: w/Express

7 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 oesales@corning.com and visit www.corning.com/opcomm/oem for sales support.



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