Singlemode Monolithic Fused Couplers (1x3 and 1x4)



Features and Benefits

Low Insertion Loss

Low PDL

High Stability and Reliability

Available in Both 1x3 and 1x4 Configurations

The 815 Series of Single and Dual Window Singlemode Monolithic Fused Couplers are highly stable across the stated range, exhibiting low insertion loss and superior reliablity performance. They are available in both 1x3 and 1x4 port configurations.

Standards

RoHS Free of hazardous

substances according to

RoHS2011/65/EU

Design and Test Criteria Product is compliant with

Telcordia GR-1209-CORE and

GR-1221-CORE

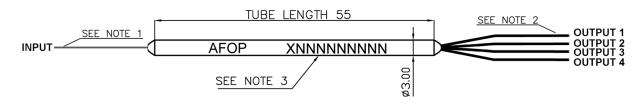


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Specifications

Parameters	Specifications			
Operating Wavelength – Single Window	1310 ±40 nm, 1528-15	1310 ±40 nm, 1528-1563 nm, or 1550 ±40 nm		
Operating Wavelength – Dual Window	1310/1550 ±40 nm	1310/1550 ±40 nm		
Port Configuration	1x3	1x4		
Coupling Ratio	33:33:33	25:25:25		
Directivity	>55 dB			
Return Loss	>50 dB			
Maximum Optical Power	500 mW			
Operating Temperature	-40°C to +75°C			
Storage Temperature	-40°C to +85°C			



Notes:

- 1. Fiber length is 1 meter ± 10 cm
- 2. Fiber length is 1 meter ± 10 cm
- 3. "XXXNNNNN" is the production serial number

Packaging Dimensions	Standard Size
Fiber Type	250 μm
Tube Length (L)	55 mm

Color Code for 1x3	
Input	Clear
Output 1	Blue
Output 2	Red
Output 3	Clear
Color Code for 1x4	
Input	Clear
Output 1	Blue
Output 2	Red
Output 3	Black
Output 4	Clear

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Maximum Insertion Loss Conversion Table (dB) (Excluding Connector Loss) – Single Window

Port Co	nfiguration	IL* (Max) dB	PDL* (Max) dB	Uniformity (Max) dB	P/N Reference
1x3	Premium	5.8	0.15	1.2	815-1100-2NX00
IX5	Ultra	5.5	0.1	0.8	815-1100-3NX00
1x4	Premium	7.3	0.2	1.4	815-1200-2NX00
	Ultra	6.9	0.15	1.0	815-1200-3NX00

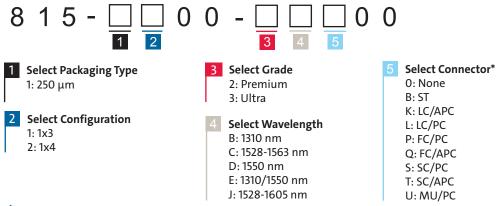
Maximum Insertion Loss Conversion Table (dB) (Excluding Connector Loss) – Dual Window

Port Co	nfiguration	IL* (Max) dB	PDL* (Max) dB	Uniformity (Max) dB	P/N Reference
1,42	Premium	6.1	0.2	1.5	815-1100-2EX00
1x3	Ultra	5.7	0.15	1.1	815-1100-3EX00
1x4	Premium	7.7	0.3	1.8	815-1200-2EX00
	Ultra	7.3	0.2	1.4	815-1200-3EX00

Notes:

Ordering Information

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Notes:

^{*}Specifications do not include connector loss



These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. 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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^{*} IL (Insertion Loss) and PDL (Polarization Dependent Loss) are measured at 23°C without connectors. Max IL is measured over operating wavelength range (not including PDL)