

Standard and Mini Dual Window Singlemode Fused Coupler

CORNING

Features and Benefits

Tap Ratios Available

Rugged Construction

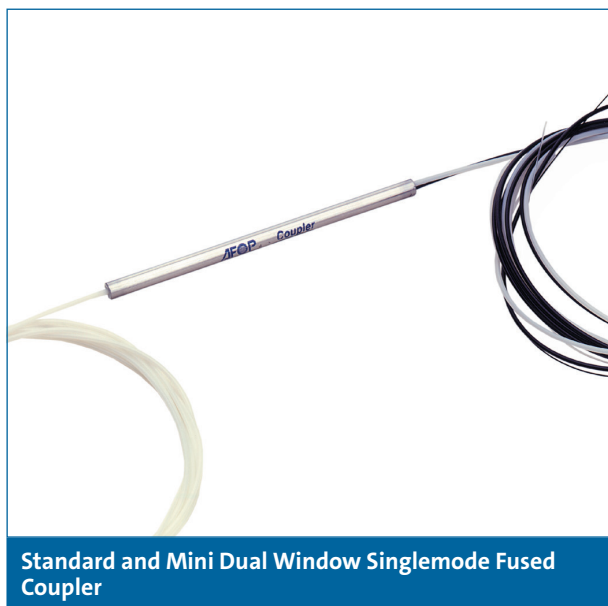
Low Input Polarization Sensitivity

Available in Both 1x2 and 2x2 Configurations

The 811 Series of Standard and Mini Dual Window Singlemode Fused Couplers offers superior performance and long term reliability. These components are highly stable across the stated range, exhibiting low insertion loss and high directivity over all split ratios. They are available in both 1x2 and 2x2 port configurations. Corning dual window fused couplers offer superior performance over an extended wavelength range of ± 40 nm at both 1310 and 1550 nm.

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

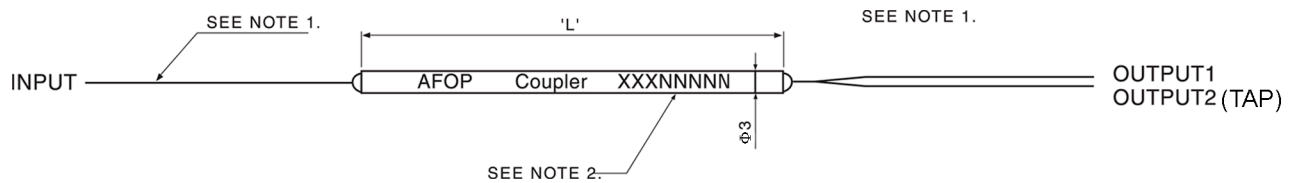


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Specifications

Parameters	Specifications
Bandpass Width	1310/1550 \pm 40 nm
Directivity	< -55 dB
Return Loss	< -55 dB
PMD	< 0.1 ps
Pigtail Tensile Strength	5N
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Storage Relative Humidity	20-90 (%RH)



Notes:

1. Fiber length is 1 meter \pm 10 cm
2. "XXXXXXXXXX" is the production serial number

Packaging Dimensions	Standard Size	Mini Size	Submini Size
Fiber Type	250 μ m, 900 μ m	250 μ m, 900 μ m	250 μ m, 900 μ m
Tube Length (L)	55 mm, 60 mm	45 mm, 50 mm	35 mm, 40 mm

Color Code			
Input	Clear, White	Clear, White	Clear, White
Output 1 (Thru)	Black, Black	Black, Black	Black, Black
Output 2 (Tap)	Clear, White	Clear, White	Clear, White

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Maximum Insertion Loss Conversion Table (dB) (Excluding Connector Loss)

Split Ratio		IL* (Max) dB		PDL* (Max) dB		WDL* (Max) dB		TDL** (Max) dB		P/N Reference
99/1	Premium	0.30	22.00	0.04	0.25	0.15	1.50	0.02	0.20	811-NN01-2EXNO
	Ultra	0.25	21.50	0.04	0.18	0.12	1.20			811-NN01-3EXNO
98/2	Premium	0.35	19.00	0.04	0.25	0.20	1.40	0.02	0.20	811-NN02-2EXNO
	Ultra	0.30	18.50	0.04	0.18	0.15	1.10			811-NN02-3EXNO
95/5	Premium	0.45	15.00	0.06	0.20	0.30	1.25	0.08	0.20	811-NN05-2EXNO
	Ultra	0.40	14.50	0.06	0.10	0.25	0.95			811-NN05-3EXNO
90/10	Premium	0.70	12.00	0.12	0.12	0.35	1.20	0.08	0.20	811-NN10-2EXNO
	Ultra	0.60	11.20	0.08	0.08	0.30	0.90			811-NN10-3EXNO
80/20	Premium	1.30	7.80	0.12	0.12	0.45	1.00	0.10	0.10	811-NN20-2EXNO
	Ultra	1.20	7.50	0.08	0.08	0.40	0.80			811-NN20-3EXNO
70/30	Premium	1.95	6.00	0.12	0.12	0.50	0.95	0.10	0.10	811-NN30-2EXNO
	Ultra	1.85	5.90	0.08	0.08	0.45	0.75			811-NN30-3EXNO
60/40	Premium	2.70	4.80	0.12	0.12	0.70	0.85	0.10	0.10	811-NN40-2EXNO
	Ultra	2.65	4.60	0.08	0.08	0.55	0.65			811-NN40-3EXNO
50/50	Premium	3.60	3.60	0.12	0.12	1.00	1.00	0.10	0.10	811-NN50-2EXNO
	Ultra	3.40	3.40	0.08	0.08	0.60	0.60			811-NN50-3EXNO

Notes:

* IL (Insertion Loss), PDL (Polarization Dependent Loss), and WDL (Wavelength Dependent Loss) all measured at 23°C without connectors

** TDL (Temperature Dependent Loss) is measured as change in IL from -5°C to +75°C.

Maximum insertion loss is measured over operating wavelength range (not including PDL and TDL).

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Ordering Information

Standard and Mini Dual Band Singlemode Fused Coupler

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1 Select Packaging Type

- 1: 250 μm Tube
- 2: 900 μm Tube
- 3: 900 μm Ruggedized
- 4: 1.6 mm Ruggedized
- 5: 3 mm Ruggedized

2 Select Configuration

- 1: 1x2
- 2: 2x2

3 Select Ratio

- 01: 1%
- 05: 5%
- ⋮
- 50: 50%

4 Select Grade

- 2: Premium
- 3: Ultra

5 Select Connector*

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

6 Select Tube Size**

- 0: Standard
- 1: Mini
- 2: Submini

Notes:

* Specifications do not include connector loss

** Use 0 for Ruggedized Packaging

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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