

Standard and Mini Single Window Wideband 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 Single Window Wideband 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 single window wideband fused couplers offer superior performance over an extended wavelength range of ± 40 nm at 1310 or 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

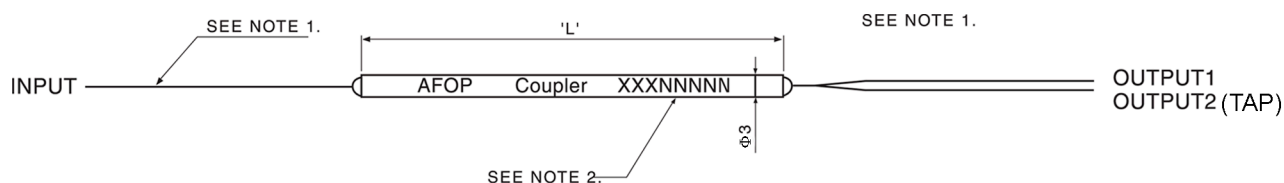


Standard and Mini Single Window Wideband Singlemode Fused Coupler

CORNING

Specifications

Parameters	Specifications
Bandpass Width	1310 ±40 nm or 1550 ±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 ± 10 cm
2. "XXXXXXXXXX" is the production serial number

Packaging Dimensions	Standard Size	Mini Size	Submini Size
Fiber Type	250 μm, 900 μm	250 μm, 900 μm	250 μm, 900 μm
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

Standard and Mini Single Window Wideband Singlemode Fused Coupler

CORNING

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	0.20	21.50	0.04	0.20	0.10	0.60	0.02	0.20	811-NN01-2XXN0
	Ultra	0.15	21.00	0.03	0.18	0.10	0.40			811-NN01-3XXN0
98/2	Premium	0.25	18.50	0.04	0.20	0.10	0.60	0.02	0.20	811-NN02-2XXN0
	Ultra	0.20	18.00	0.03	0.15	0.10	0.40			811-NN02-3XXN0
95/5	Premium	0.45	14.50	0.05	0.15	0.10	0.60	0.08	0.20	811-NN05-2XXN0
	Ultra	0.35	14.00	0.03	0.12	0.10	0.40			811-NN05-3XXN0
90/10	Premium	0.70	10.90	0.06	0.15	0.10	0.50	0.08	0.20	811-NN10-2XXN0
	Ultra	0.60	10.60	0.04	0.10	0.10	0.30			811-NN10-3XXN0
80/20	Premium	1.20	7.80	0.10	0.15	0.15	0.50	0.10	0.10	811-NN20-2XXN0
	Ultra	1.10	7.40	0.08	0.10	0.15	0.30			811-NN20-3XXN0
70/30	Premium	1.80	5.80	0.10	0.15	0.20	0.50	0.10	0.10	811-NN30-2XXN0
	Ultra	1.70	5.50	0.08	1.10	0.15	0.30			811-NN30-3XXN0
60/40	Premium	2.70	4.50	0.10	0.12	0.30	0.50	0.10	0.10	811-NN40-2XXN0
	Ultra	2.40	4.30	0.08	0.10	0.20	0.30			811-NN40-3XXN0
50/50	Premium	3.50	3.50	0.10	0.10	0.40	0.40	0.10	0.10	811-NN50-2XXN0
	Ultra	3.30	3.30	0.08	0.08	0.25	0.25			811-NN50-3XXN0

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).

Standard and Mini Single Window Wideband Singlemode Fused Coupler

CORNING

Ordering Information

Standard and Mini Single Window Wideband Singlemode Fused Coupler

8 1 1 - - 0

1
2
3
4
5
6
7

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 Wavelength

- B: 310 nm
- D: 1550 nm

6 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

7 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.



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 • Email: 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. 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-104_AEN

Page 4 | Revision date 2016-11-14

CORNING