

Multimode Wideband Fused Couplers

CORNING

Features and Benefits

Tap Ratios Available

Rugged Construction

Excellent Uniformity

Environmentally Stable

Available in Both 1x2 and 2x2 Configurations

The 813 Series of Multimode Wideband Fused Coupler offer superior performance and long-term reliability. These components are highly stable across the stated range and exhibit low insertion loss over all split ratios. They are available in both 1x2 and 2x2 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

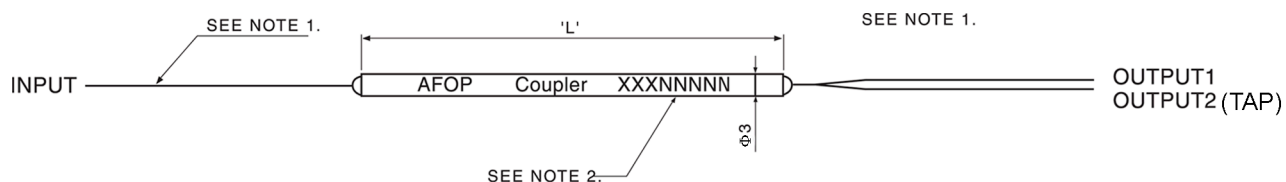


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Specifications

Parameters	Specifications
Center Wavelength	850, 1310, 1550 nm
Bandpass Width	±40 nm
Directivity	>40 dB
Return Loss	>40 dB
Maximum Power Handling	500 mW
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Fiber Type	62.5/125 μm, 50/125 μm



Notes:

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

Packaging Dimensions	Standard Size	
Fiber Type	250 μm	900 μm
Tube Length (L)	55 mm	60 mm
Color Code		
Input	Clear	White
Output 1 (Thru)	Black	Black
Output 2 (Tap)	Clear	White

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813 MM Wideband Single Window Couplers, Wavelength: 850, 1310, or 1550 (± 40 nm)

Split Ratio		IL* (Max) dB		WDL* (Max dB)		P/N Reference
99/1	Premium	1.00	21.80	1.00	1.20	813-NN01-2NXNO
	Ultra	0.80	21.50	.040	0.80	813-NN01-3NXNO
98/2	Premium	1.10	18.80	1.00	1.20	813-NN02-2NXNO
	Ultra	0.80	18.50	0.40	0.80	813-NN02-3NXNO
95/5	Premium	1.30	14.50	1.00	1.20	813-NN05-2NXNO
	Ultra	1.00	14.30	0.40	0.80	813-NN05-3NXNO
90/10	Premium	1.40	11.30	0.80	1.00	813-NN10-2NXNO
	Ultra	1.20	11.00	0.50	0.70	813-NN10-3NXNO
80/20	Premium	2.00	8.20	0.80	1.00	813-NN20-2NXNO
	Ultra	1.70	7.90	0.50	0.70	813-NN20-3NXNO
70/30	Premium	2.60	6.40	0.80	0.80	813-NN30-2NXNO
	Ultra	2.30	6.10	0.60	0.60	813-NN30-3NXNO
60/40	Premium	3.20	5.20	0.80	0.80	813-NN40-2NXNO
	Ultra	3.00	4.90	0.60	0.60	813-NN40-3NXNO
50/50	Premium	4.20	4.20	0.80	0.80	813-NN50-2NXNO
	Ultra	3.90	3.90	0.60	0.60	813-NN50-3NXNO

Notes:

*Maximum insertion loss is measured at center wavelength 23°C without connectors.

813 MM Wideband Dual Window Couplers, Wavelength: 850/1310, 850/1550, or 1310/1550 (± 40 nm)

Split Ratio		IL* (Max) dB		WDL* (Max dB)		P/N Reference
99/1	Premium	1.30	21.90	1.00	1.20	813-NN01-2NXNO
	Ultra	1.10	21.60	.040	0.80	813-NN01-3NXNO
98/2	Premium	1.40	19.10	1.00	1.20	813-NN02-2NXNO
	Ultra	1.10	18.70	0.40	0.80	813-NN02-3NXNO
95/5	Premium	1.50	14.80	1.00	1.20	813-NN05-2NXNO
	Ultra	1.20	14.40	0.40	0.80	813-NN05-3NXNO
90/10	Premium	1.70	11.70	0.80	1.00	813-NN10-2NXNO
	Ultra	1.50	11.30	0.50	0.70	813-NN10-3NXNO
80/20	Premium	2.30	8.40	0.80	1.00	813-NN20-2NXNO
	Ultra	2.00	8.00	0.50	0.70	813-NN20-3NXNO
70/30	Premium	2.80	6.60	0.80	0.80	813-NN30-2NXNO
	Ultra	2.50	6.30	0.60	0.60	813-NN30-3NXNO
60/40	Premium	3.50	5.50	0.80	0.80	813-NN40-2NXNO
	Ultra	3.30	5.20	0.60	0.60	813-NN40-3NXNO
50/50	Premium	4.50	4.50	0.80	0.80	813-NN50-2NXNO
	Ultra	4.10	4.10	0.60	0.60	813-NN50-3NXNO

Notes:

*Maximum insertion loss is measured at center wavelength 23°C without connectors.

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Ordering Information

Multimode Wideband Fused Couplers

8 1 3 - - 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
- E: 1310/1550 nm
- M: 850 nm
- K: 850/1310 nm
- L: 850/1550 nm

6 Select Connector*

- 0: None
- B: ST
- L: LC/PC
- P: FC/PC
- S: SC/PC
- U: MU/PC

7 Select Fiber Type

- 0: 50/125 μm Glass Fiber
- 1: 62.5/125 μm Glass Fiber

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



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