

# Singlemode Fused Coupler LGX® Module (832 Series)

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## Features and Benefits

Wideband and Dual Window Options

Standard LGX Configurations

High Stability & Reliability

Rated for Outdoor Use

Corning offers a full line of high performance coupler LGX® modules. The 832 Series of products offers superior performance over repeated connections, with a full complement of industry standard features. These modules provide low insertion loss and high directivity. The 832 line fits standard LGX configurations and provides rugged construction for stable and reliable operation.

## 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, 1528-1563 nm, 1550 ±40 nm, or 1528-1605 nm
Operating Wavelength – Dual Window	1310/1550 ±40 nm
Directivity	>55 dB
Return Loss	>50 dB
Maximum Optical Power	300 mW
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C

## Packaging Dimensions

Standard Single Width, Double Width, and Triple Width LGX

## Ordering Information

Singlemode Fused Coupler LGX Module (832 Series)

8 3 2 - 1    -    0 0

1
2
3
4
5

### 1 Select Configuration

- 1: 1x2
- 2: 2x2
- 3: 1x3
- 4: 1x4
- 5: 1x5
- 6: 1x6
- 8: 1x8
- A: 1x10
- B: 1x12
- C: 1x16
- D: 1x32

### 2 Select Ratio

- 00: Even Split
- 01: 1/99%
- 02: 2/98%
- 05: 5/95%
- 10: 10/90%
- 15: 15/85%
- ⋮
- 50: 50/50%

### 3 Select Grade

- 2: Premium
- 3: Ultra

### 4 Select Wavelength

- B: 1310 nm
- C: 1528-1563 nm
- D: 1550 nm
- E: 1310/1550 nm
- J: 1528-1605 nm

### 5 Select Connector

- K: LC/APC
- L: LC/PC
- S: SC/PC
- T: SC/APC

**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](mailto:oesales@corning.com) and visit [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) for sales support.**

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## Single Window Wavelength: 1528-1563 nm

Port Configuration		IL* (Max) dB	PDL* (Max) dB	TDL** (Max) dB	P/N Reference
1x2	Premium	3.40	0.15	0.15	832-11NN-2CX00
	Ultra	3.20	0.10		832-11NN-3CX00
1x3	Premium	5.50	0.20	0.25	832-13NN-2CX00
	Ultra	5.30	0.15		832-13NN-3CX00
1x4	Premium	7.00	0.20	0.25	832-14NN-2CX00
	Ultra	6.70	0.15		832-14NN-3CX00
1x5	Premium	8.10	0.25	0.30	832-15NN-2CX00
	Ultra	7.90	0.20		832-15NN-3CX00
1x6	Premium	8.80	0.30	0.30	832-16NN-2CX00
	Ultra	8.40	0.25		832-16NN-3CX00
1x8	Premium	10.80	0.30	0.30	832-18NN-2CX00
	Ultra	10.30	0.25		832-18NN-3CX00
1x10	Premium	11.80	0.40	0.40	832-1ANN-2CX00
	Ultra	11.50	0.30		832-1ANN-3CX00
1x12	Premium	12.80	0.40	0.40	832-1BNN-2CX00
	Ultra	12.50	0.30		832-1BNN-3CX00
1x16	Premium	13.80	0.40	0.40	832-1CNN-2CX00
	Ultra	13.30	0.30		832-1CNN-3CX00
1x32	Premium	17.80	0.50	0.50	832-1DNN-2CX00
	Ultra	17.40	0.40		832-1DNN-3CX00

### Notes:

\* IL and PDL are measured at 23°C without connectors.

\*\* Temperature Dependent Loss (TDL) is measured at change in IL per degree C from -5°C to +75°C.  
Max IL is measured over operating wavelength range (not including PDL and TDL).

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Single Window Wavelength:  
1310 ±40 nm, 1550 ±40 nm, or 1528-1605 nm

Port Configuration		IL* (Max) dB	PDL* (Max) dB	TDL** (Max) dB	P/N Reference
1x2	Premium	3.50	0.15	0.15	832-11NN-2NX00
	Ultra	3.30	0.10		832-11NN-3NX00
1x3	Premium	5.70	0.25	0.25	832-13NN-2NX00
	Ultra	5.50	0.20		832-13NN-3NX00
1x4	Premium	7.20	0.20	0.25	832-14NN-2NX00
	Ultra	6.80	0.15		832-14NN-3NX00
1x5	Premium	8.30	0.25	0.30	832-15NN-2NX00
	Ultra	8.10	0.20		832-15NN-3NX00
1x6	Premium	9.30	0.30	0.30	832-16NN-2NX00
	Ultra	9.00	0.25		832-16NN-3NX00
1x8	Premium	11.00	0.30	0.30	832-18NN-2NX00
	Ultra	10.40	0.25		832-18NN-3NX00
1x10	Premium	12.00	0.40	0.40	832-1ANN-2NX00
	Ultra	11.50	0.30		832-1ANN-3NX00
1x12	Premium	13.00	0.40	0.40	832-1BNN-2NX00
	Ultra	12.40	0.30		832-1BNN-3NX00
1x16	Premium	14.00	0.40	0.40	832-1CNN-2NX00
	Ultra	13.50	0.30		832-1CNN-3NX00
1x32	Premium	18.00	0.50	0.50	832-1DNN-2NX00
	Ultra	17.50	0.40		832-1DNN-3NX00

## Notes:

\* IL and PDL are measured at 23°C without connectors.

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

Max IL is measured over operating wavelength range (not including PDL and TDL).

# Singlemode Fused Coupler LGX® Module (832 Series)

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Single Window Wavelength: 1310/1550 ±40 nm

Port Configuration		IL* (Max) dB	PDL* (Max) dB	TDL** (Max) dB	P/N Reference
1x2	Premium	3.60	0.15	0.15	832-11NN-2EX00
	Ultra	3.40	0.10		832-11NN-3EX00
1x3	Premium	5.80	0.25	0.25	832-13NN-2EX00
	Ultra	5.60	0.20		832-13NN-3EX00
1x4	Premium	7.40	0.30	0.25	832-14NN-2EX00
	Ultra	7.20	0.20		832-14NN-3EX00
1x5	Premium	8.50	0.30	0.30	832-15NN-2EX00
	Ultra	8.30	0.25		832-15NN-3EX00
1x6	Premium	9.50	0.30	0.30	832-16NN-2EX00
	Ultra	9.30	0.25		832-16NN-3EX00
1x8	Premium	11.40	0.40	0.30	832-18NN-2EX00
	Ultra	10.80	0.30		832-18NN-3EX00
1x10	Premium	12.30	0.40	0.40	832-1ANN-2EX00
	Ultra	12.00	0.30		832-1ANN-3EX00
1x12	Premium	13.20	0.50	0.40	832-1BNN-2EX00
	Ultra	12.80	0.40		832-1BNN-3EX00
1x16	Premium	14.50	0.50	0.40	832-1CNN-2EX00
	Ultra	14.00	0.40		832-1CNN-3EX00
1x32	Premium	18.30	0.50	0.50	832-1DNN-2EX00
	Ultra	17.80	0.40		832-1DNN-3EX00

## Notes:

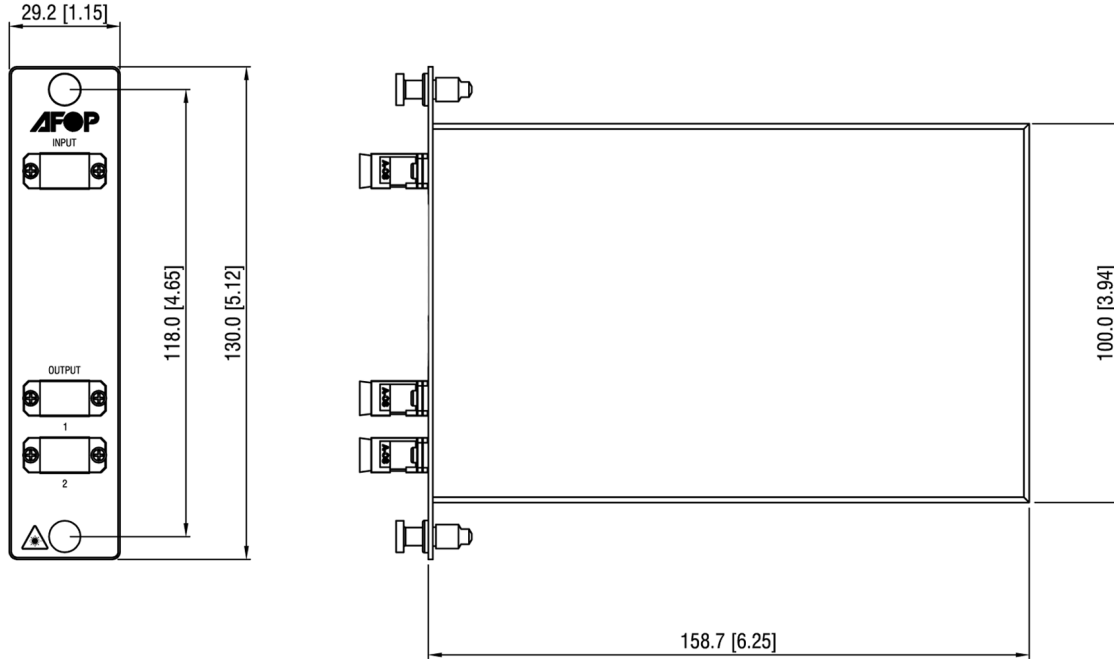
\* IL and PDL are measured at 23°C without connectors.

\*\* Temperature Dependent Loss (TDL) is measured at change in IL per degree C from -5°C to +75°C.  
Max IL is measured over operating wavelength range (not including PDL and TDL).

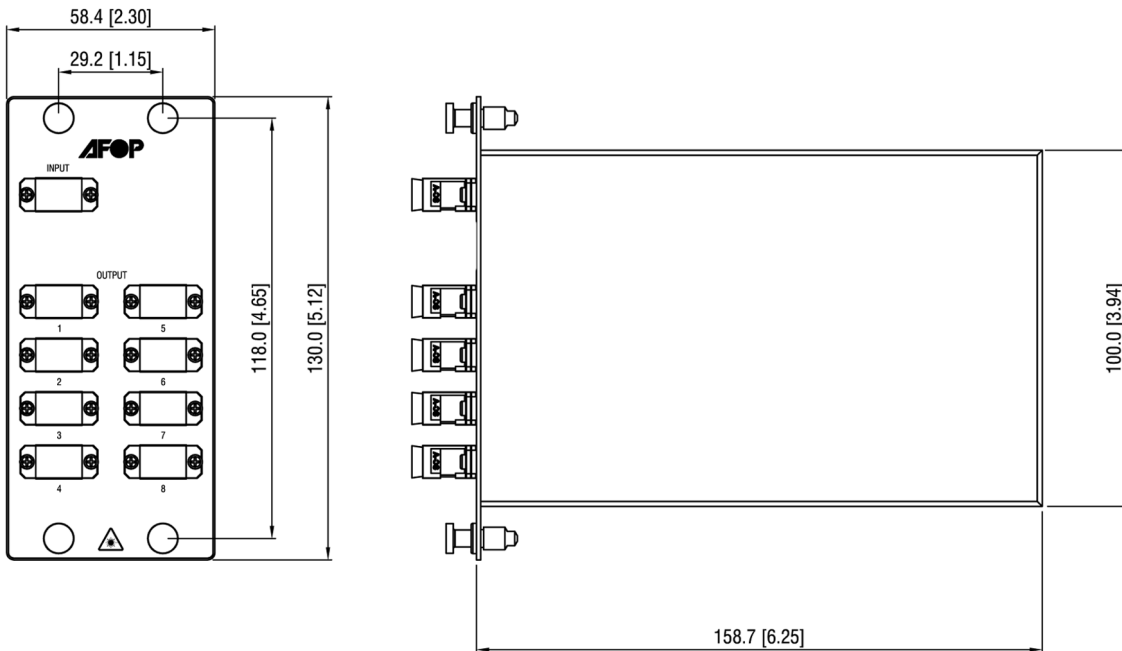
# Singlemode Fused Coupler LGX® Module (832 Series)



## Mechanical Drawing of Single Width LGX: 1x2, 2x2, 1x3, 1x4, 1x5



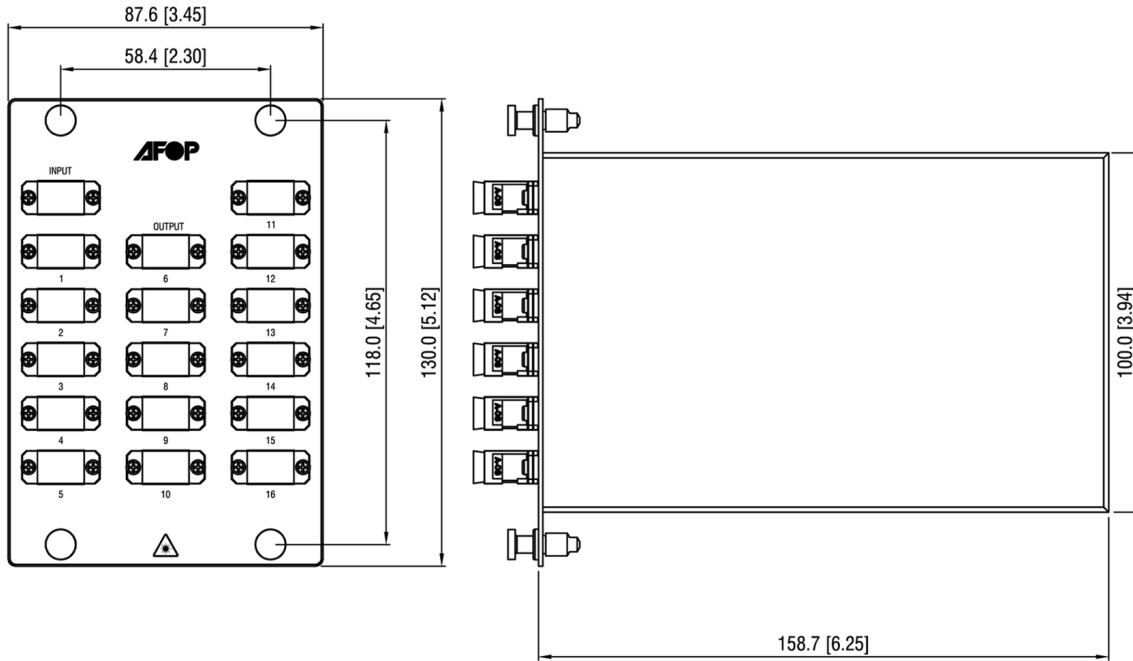
## Mechanical Drawing of Double Width LGX: 1x6, 1x8, 1x10



# Singlemode Fused Coupler LGX® Module (832 Series)

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## Mechanical Drawing of Triple Width LGX: 1x12, 1x16, 1x32 (LC Only)



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](http://www.corning.com/opcomm/oem) • Email: [oemsales@corning.com](mailto:oemsales@corning.com)

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