



### ○ Features & Benefits

- Low Insertion Loss - High Directivity
- 1310 & 1550nm Dual Window Operation
- 1 x 2,3,4,6 or 8 Models
- 1 RU Mounting
- FC/APC Connectors In/Out

The FOC Series of optical couplers are used to split 1310 & 1550 nm light sources, with minimal loss, from one to up to eight fibers. The couplers are 19 inch rack mountable and have FC/APC connectors for superior reflection performance. The 1x2 and 1x3 couplers can be ordered with multiple coupling ratio options while the 1x4, 1x6 and 1x8 couplers provide balanced coupling ratios only.

### ○ Specifications

#### Optical

|                                   |                |        |        |        |         |
|-----------------------------------|----------------|--------|--------|--------|---------|
| Number Of Inputs:                 | 1              |        |        |        |         |
| Wavelength:                       | 1310 & 1550 nm |        |        |        |         |
| Number of Outputs:                | 1x2            | 1x3    | 1x4    | 1x6    | 1x8     |
| Insertion Loss (Individual Port): | ≤3.6 dB        | 6.0 dB | 7.3 dB | 9.7 dB | 10.8 dB |
| Uniformity:                       | ≤0.6 dB        | 1.0 dB | 1.0 dB | 1.0 dB | 1.9 dB  |
| Directivity:                      | ≥ 50 dB        | 50 dB  | 50 dB  | 50 dB  | 50 dB   |

| Available Coupling Ratios |                      | Insertion Loss (dB) |                        | 1 x 4                        | 1 x 6                        | 1 x 8                        |
|---------------------------|----------------------|---------------------|------------------------|------------------------------|------------------------------|------------------------------|
| 1 x 2 Model #             | Stock #              | Ratios              | Loss (dB)              |                              |                              |                              |
| FOC-22-12-U-50            | 7482-U-50            | 50/50               | 3.6/3.6                | Balanced Coupling Ratio Only | Balanced Coupling Ratio Only | Balanced Coupling Ratio Only |
| FOC-22-12-U-40            | 7482-U-40            | 40/60               | 4.7/2.7                |                              |                              |                              |
| FOC-22-12-U-30            | 7482-U-30            | 30/70               | 6.0/1.9                |                              |                              |                              |
| FOC-22-12-U-20            | 7482-U-20            | 20/80               | 7.9/1.2                |                              |                              |                              |
| FOC-22-12-U-10            | 7482-U-10            | 10/90               | 11.3/0.6               |                              |                              |                              |
| FOC-22-12-U-05            | 7482 U-05            | 5/95                | 15.1/0.5               |                              |                              |                              |
| FOC-22-12-U-01            | 7482 U-01            | 1/99                | 21.0/0.15              |                              |                              |                              |
| 1 x 3 Model #             |                      |                     |                        |                              |                              |                              |
| <del>FOC-23-13-U-33</del> | <del>7483-U-33</del> | <del>33/33/33</del> | <del>6.0/6.0/6.0</del> |                              |                              |                              |
| FOC-23-13-U-30            | 7483-U-30            | 40/30/30            | 4.7/6.4/6.4            |                              |                              |                              |
| FOC-23-13-U-25            | 7483-U-25            | 50/25/25            | 3.6/7.3/7.3            |                              |                              |                              |
| FOC-23-13-U-20            | 7483-U-20            | 60/20/20            | 2.7/8.4/8.4            |                              |                              |                              |
| FOC-23-13-U-15            | 7483-U-15            | 70/15/15            | 1.9/9.6/9.6            |                              |                              |                              |
| FOC-23-13-U-10            | 7483-U-10            | 80/10/10            | 1.2/11.3/11.3          |                              |                              |                              |

#### Mechanical

Dimensions (WxHxD): 19.00 x 1.75 x 16.72 in, 483 x 44 x 425 mm

#### Connectors

Optical Input: FC/APC Bulkhead  
Optical Output: FC/APC Bulkhead

### ○ Ordering Information

| Model                  | Stock No.        | Description   |
|------------------------|------------------|---|
| FOC-22-12-U-XX         | 7482UXX          | 1x2 Fiber Optic Coupler, 19" Rack Mount 1310/1550 nm, FC/APC Connectors                         |
| FOC-23-13-U-XX         | 7483UXX          | 1x3 Fiber Optic Coupler, 19" Rack Mount, Truly Fused 1310/1550 nm, FC/APC Connectors            |
| <del>FOC-23-14-U</del> | <del>7484U</del> | <del>1x4 Fiber Optic Coupler, 19" Rack Mount, Truly Fused 1310/1550 nm, FC/APC Connectors</del> |
| FOC-23-16-U            | 7486U            | 1x6 Fiber Optic Coupler, 19" Rack Mount 1310/1550 nm, FC/APC Connectors                         |
| <del>FOC-23-18-U</del> | <del>7488U</del> | <del>1x8 Fiber Optic Coupler, 19" Rack Mount 1310/1550 nm, FC/APC Connectors</del>              |