

## Features and Benefits

- 1x3 to 1x8 ports
- 1300/1550nm operation
- Environmentally stable
- Single Wavelength, Wavelength Flattened, and Wideband
- Manufactured using Optical Fibers SM-02R fiber and supplied with 1m primary-coated, secondary-coated or cabled pigtails. Other fiber types and pigtail lengths available on request
- Can be optimized for 1310nm or 1310/1550nm operation
- Other port configurations, as well as couplers with unsymmetrical split ratios available

## Applications

- Telecommunications
- Passive telephony or CATV networks
- Test equipment
- Optical signal processing
- Fiber sensors

## Single Mode 1 x N Fused Couplers



### 1x3, 1x4, 1x5, 1x6 or 1x8 ports, 1300/1550nm operation

SIFAM's Single Wavelength Couplers give optimum performance at 1300 or 1550 nm, or another specified custom wavelength. Wavelength Flattened Couplers offer the same performance over a wavelength band within the 1300 or 1550 nm windows. Wideband Couplers perform this function over both the 1300 and 1550 nm windows.

## SPECIFICATIONS

| Optical Specifications      |                                                                                               |     |       |     |       |     |       |     |       |      |
|-----------------------------|-----------------------------------------------------------------------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|------|
|                             | Single Wavelength (1300nm or 1550nm)<br>OR<br>Wavelength Flattened (1300 ±20nm or 1550 ±20nm) |     |       |     |       |     |       |     |       |      |
| Port Configuration          | 1 x 3                                                                                         |     | 1 x 4 |     | 1 x 5 |     | 1 x 6 |     | 1 x 8 |      |
| Grade                       | BB                                                                                            | B   | BB    | B   | B     | C   | B     | C   | C     | D    |
| Maximum Insertion Loss (dB) | 5.4                                                                                           | 5.8 | 6.7   | 7.3 | 7.9   | 8.5 | 8.8   | 9.5 | 10.1  | 11.  |
| Minimum Insertion Loss (dB) | 4.4                                                                                           | 4.3 | 5.6   | 5.3 | 6.5   | 6.2 | 7.2   | 6.9 | 8.4   | 7.9  |
| Uniformity (dB)             | 1.0                                                                                           | 1.5 | 1.1   | 2.1 | 1.5   | 2.4 | 1.6   | 2.6 | 1.7   | 3.2  |
| Directivity (dB)            | 50                                                                                            |     |       |     |       |     |       |     |       |      |
|                             | Wideband (1300 ±20 nm and 1550 ±20 nm)+20 nm)                                                 |     |       |     |       |     |       |     |       |      |
| Port Configuration          | 1 x 3                                                                                         |     | 1 x 4 |     | 1 x 5 |     | 1 x 6 |     | 1 x 8 |      |
| Grade                       | B                                                                                             | C   | B     | C   | C     | D   | C     | D   | D     | E    |
| Maximum Insertion Loss (dB) | 5.8                                                                                           | 6.0 | 7.3   | 7.7 | 8.5   | 8.8 | 9.5   | 9.9 | 11.1  | 11.6 |
| Minimum Insertion Loss (dB) | 4.3                                                                                           | 4.1 | 5.3   | 5.0 | 6.2   | 5.9 | 6.9   | 6.6 | 7.9   | 7.5  |
| Uniformity (dB)             | 1.5                                                                                           | 1.9 | 2.1   | 2.7 | 2.4   | 2.9 | 2.6   | 3.3 | 3.2   | 4.1  |
| Directivity (dB)            | 50                                                                                            |     |       |     |       |     |       |     |       |      |

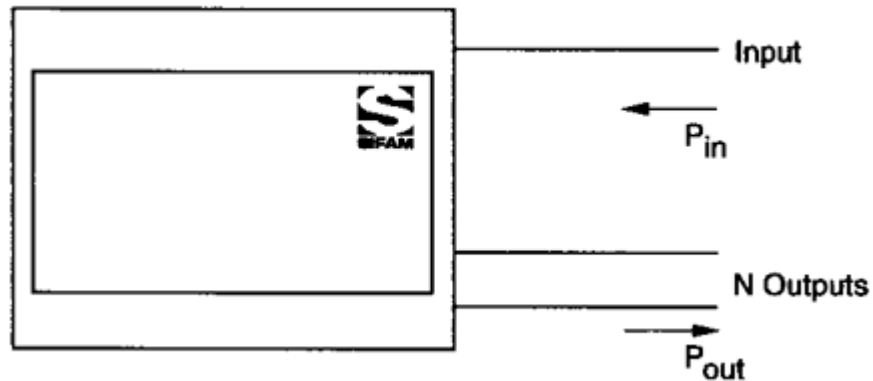
# ORDERING INFORMATION

## Ordering Codes

| Type                               | 1 x 3 | 1 x 4 | 1 x 5 | 1 x 6 | 1 x 8 |
|------------------------------------|-------|-------|-------|-------|-------|
| Primary Coated (250µm) Pigtails    | L     | L     | L     | L     | L     |
| 900µm Loose Tube Buffered Pigtails | P     | P     | P     | P     | P     |
| 3mm Fan-Out Buffered Pigtails      | R     | R     | R     | R     | R     |
| Single Wavelength Format Code      | 3S    | 4S    | 5S    | 6S    | 8S    |
| Wavelength Flattened Format Code   | 3SWF  | 4SWF  | 5SWF  | 6SWF  | 8SWF  |
| Wideband Format Code               | 3SWB  | 4SWB  | 5SWB  | 6SWB  | 8SWB  |
| Operating Wavelength 1300nm        | 13    | 13    | 13    | 13    | 13    |
| Operating Wavelength 1500nm        | 1     | 15    | 15    | 15    | 15    |
| Operating Wavelength 1300/1500nm   | 13/15 | 13/15 | 13/15 | 13/15 | 13/15 |
| Insertion Loss Grade               | BB    | BB    | BB    | --    | --    |
| Insertion Loss Grade B             | B     | B     | B     | B     | --    |
| Insertion Loss Grade C             | C     | C     | C     | C     | C     |
| Insertion Loss Grade D             | --    | --    | D     | D     | D     |
| Insertion Loss Grade E             | --    | --    | --    | --    | E     |

eg.:

|              |             |                      |       |
|--------------|-------------|----------------------|-------|
| P            | 4S          | 13                   | B     |
| Housing Code | Format Code | Operating Wavelength | Grade |



FOR ADDITIONAL INFORMATION ON THIS OR OTHER PRODUCTS AND THEIR AVAILABILITY, PLEASE CONTACT FIBER OPTIC CENTER, INC.