

# 1550nm Single Mode Standard Fiber Coupler Mini



## ● Product Description

Idealphotonics' mini 1x2 (2x2) single-window broadband fiber couplers provide high performance and high reliability over broadband with precise optical signal splitting ratios in a small or sub-miniature package. These couplers have excellent uniformity, low loss, and very low polarization sensitivity, and are available in a variety of splitting ratios, wavelength ranges, fiber types, and connector options. All devices can handle high optical powers up to 4W and are tested according to industry standard procedures. Reliability is guaranteed through rigorous testing to fully meet the requirements of Telcordia GR-1221. We can provide custom designs to meet specialized functional applications. We also offer full environmental testing options. This is a special option for fiber optic systems in aerospace grade applications.

## ● Part Number

SMMSC-1-3-50-1-1-7

## ● Product features

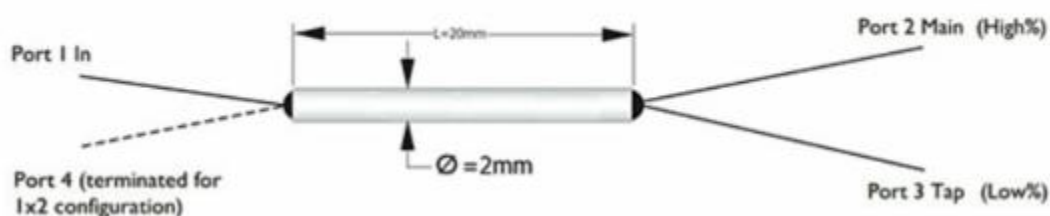
Mini packaging 、 Low insertion loss and PDL 、 High power handling 、  
Reliability Guarantee

## ● Application area

Signal Monitoring in EDFA、 Network Monitoring、 CATV/Fiber Optic Gyro System、 local area network、 Test Equipment、 Laboratory research and development

## Parameters

### Dimensional Drawing



| Configuration Specifications |       | Unit | 1×2/2×2  |  |
|------------------------------|-------|------|--|--|
| Type                         |       |      | Single Mode Standard Fiber Coupler Mini ( SMMSC) | Single Mode Broadband Single Window Fiber Coupler Mini(SMMWSC) |
| Working wavelength           |       | nm   | 980 or 1310 or 1550                              | 980 or 1310 or 1550  |
| Wavelength bandwidth         |       | nm   | ± 20   | ± 40   |
| Maximum insertion loss       | 50/50 | %    | 3.45/3.45  | 3.55/3.55  |
|                              | 40/60 | %    | 4.40/2.60  | 4.60/2.70  |
|                              | 30/70 | %    | 5.80/1.90  | 6.00/2.00  |
|                              | 20/80 | %    | 7.70/1.30  | 8.00/1.40  |
|                              | 10/90 | %    | 11.20/0.75                                       | 11.40/0.85   |
|                              | 5/95  | %    | 14.20/0.50                                       | 14.50/0.55   |
|                              | 2/98  | %    | 18.50/0.36                                       | 18.80/0.40   |
|                              | 1/99  | %    | 21.50/0.30                                       | 21.80/0.35   |
| PDL                          |       | dB   | ≤0.15  |  |
| Return loss                  |       | dB   | ≥50.00   |  |
| Directionality               |       | dB   | ≥55.00   |  |

|                       |      |  |
|-----------------------|------|--|
| Operating temperature | Deg. | -5-75  |
| Storage temperature   | Deg. | -40-85   |
| Fiber length          | m    | $1.00 \pm 0.10$  |
| Fiber Type            |      | Clear Curve® XB  |
| Fiber diameter        | um   | 250  |
| Package size          | mm   | $2.0 \times 20, 2.4 \times 25, 2.4 \times 30, 3 \times 30$ |

Note: The parameters do not include connectors, and the connector IL is 0.30dB

#### Ordering Information :

| C  | OW    | CR                    | P                  | FT                 | C                        |            |
|--|-------|-----------------------|--------------------|--------------------|--------------------------|------------|
| SMMSC:<br>Single Mode<br>Standard<br>Coupler Mini                    | Type  | Working<br>wavelength | Splitting<br>ratio | Package<br>size mm | Fiber Type               | Connectors |
|  | 1:1x2 |                       |                    | 1: $2.0 \times 20$ | 1:<br>ClearCurve<br>® XB | 1: none    |
|  | 2:2x2 | 1:980                 | 50:50/50           | 2: $2.4 \times 25$ |                          | 2: LC/UPC  |
| SMMWSC:<br>Single Mode<br>Broadband<br>Single Window<br>Coupler Mini |       | 2:1310                | 45:45/55           | 3: $2.4 \times 30$ | 2: ofs -16               | 3: LC/APC  |
|  |       | 3:1550                | ...                | 4: $3 \times 30$   | 3: ofs -20               | 4: SC/UPC  |
|  |       | 7: other              | 01:1/99            | 5: other           | 4: HI 1060               | 5: SC/APC  |
|  |       |                       |                    |                    | 5: HI<br>1060Flex        | 6: FC/UPC  |
|  |       |                       |                    |                    | 6: other                 | 7: FC/APC  |
|  |       |                       |                    |                    |                          | 8: other   |