

# 1x2 (2x2) Ultra-Low PDL Single Mode 1310/1550nm Fused Splitter

## Specifications

| Parameter             |      | Unit | 50 : 50             |         |
|-----------------------|------|------|---------------------|---------|
|                       |      |      | Premium             | A grade |
| Bandwidth             |      | nm   | 1310± 20 & 1550± 20 |         |
| Insertion Loss        | Max. | dB   | 3.6                 | 3.9     |
| Excess Loss           | Typ. | dB   | 0.07                | 0.1     |
| Uniformity            | Max. | dB   | 0.8                 | 1.2     |
| PDL                   | Max. | dB   | 0.03                | 0.05    |
| Return Loss           | Min. | dB   | 50                  |         |
| Operating Temperature |      | °C   | -40 to +85          |         |
| Storage Temperature   |      | °C   | -50 to +85          |         |

Note: Return loss without connector; insertion loss does not include connector



## Splitting Ratio VS Insertion Loss

| Splitting Ratio & Insertion Loss Conversion Table |           |                             |           |           |           |
|---|-----------|-----------------------------|-----------|-----------|-----------|
| Splitting Ratio                                   |           | Maximum Insertion Loss (dB) |           |           |           |
|   |           | Premium                     |           | A grade   |           |
| Out Port1   | Out Port2 | Out Port1                   | Out Port2 | Out Port1 | Out Port2 |
| 50  | 50        | 3.6                         | 3.6       | 3.9       | 3.9       |
| 60  | 40        | 2.7                         | 4.7       | 2.9       | 5.0       |
| 70  | 30        | 1.9                         | 6.0       | 2.1       | 6.4       |
| 80  | 20        | 1.2                         | 7.9       | 1.4       | 8.5       |
| 90  | 10        | 0.6                         | 11.3      | 0.8       | 12.7      |
| 95  | 5         | 0.4                         | 15.2      | 0.5       | 18.9      |
| 98  | 2         | 0.3                         | 19.8      | 0.4       | 21        |
| 99  | 1         | 0.3                         | 23.5      | 0.4       | 24        |

### Features / Benefits

- Ultra-low PDL
- Low excess loss

### Applications

- Optical communication system
- Optical power distribution system
- Fiber optic sensors
- Optical test system

## Ordering Information

