

## 1x2 (2x2) Ultra-Low PDL Narrowband Splitter

### Features of our splitter:

- Ultra-Low PDL
- Low Insertion loss
- High Directivity
- Stable and Reliable

### Applications for our splitter:

- Optical Communications System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

### Specifications:

| Specification         |      |      |            |                                             |
|-----------------------|------|------|------------|---------------------------------------------|
| Parameter             |      | Unit | Premium    | A grade                                     |
| Port Configuration    |      |      | 1x2 or 2x2 |                                             |
| Bandwidth             |      | nm   | +/-10      |                                             |
| Insertion Loss        | Max. | dB   | 3.4        | 3.6                                         |
| Excess loss           | Typ. | dB   | 0.07       | 0.1                                         |
| Uniformity            | Max. | dB   | 0.6        | 1.0                                         |
| PDL                   | Max. | dB   | 0.03       | 0.05                                        |
| Return Loss *         | Min. | dB   | 50         |                                             |
| Operating Temperature |      | °C   | -40 to +85 |                                             |
| Storage Temperature   |      | °C   | -50 to +85 |                                             |
| Package Type          |      | mm   | S6         | Diam. 3x54: for bare fiber                  |
|                       |      |      | S8         | Diam. 3x70: for 0.9mm loose tube            |
|                       |      |      | M1         | 10x20x90: for 0.9mm loose tube or 3mm cable |

\* >60dB on request for 1x2 structure

| Splitting Ratio and Insertion Loss Conversion Table |                             |               |               |               |
|-----------------------------------------------------|-----------------------------|---------------|---------------|---------------|
| Splitting Ratio                                     | Maximum Insertion Loss (dB) |               |               |               |
|                                                     | Premium                     |               | A Grade       |               |
| Output Port                                         | Output Port                 | Output Port 2 | Output Port 1 | Output Port 2 |
|                                                     |                             |               |               |               |

|          | 1   |      |     |      |
|----------|-----|------|-----|------|
| 50:50    | 3.4 | 3.4  | 3.6 | 3.6  |
| 60:40    | 2.5 | 4.4  | 2.8 | 4.8  |
| 70:30    | 1.8 | 5.6  | 2.0 | 6.1  |
| 80:20    | 1.1 | 7.4  | 1.3 | 8.0  |
| 90:10    | 0.6 | 10.8 | 0.8 | 12   |
| 95:5     | 0.4 | 14.6 | 0.5 | 18.4 |
| 96:4     | 0.3 | 16.0 | 0.4 | 19.0 |
| 97:3     | 0.3 | 17.5 | 0.4 | 19.5 |
| 98:2     | 0.2 | 19.0 | 0.3 | 20.0 |
| 99:1     | 0.2 | 21.5 | 0.3 | 22.0 |
| 99.5:0.5 | 0.2 | 23.0 | 0.3 | 24.0 |

**Ordering Information:**

- Wavelength: 1625, 1590, 1570, 1550, 1480, 1475, 1310
- Structure: 1x2, 2x2
- Splitting Ratio: 99.5:0.5, 99:1, 98:2, 97:3, 96:4, 95:5, 90:10, 80:20, 70:30, 60:40, 50:50
- Grade: Premium (P), A grade
- Fiber type: SMF-28
- Pigtail: 250um bare fiber, 0.9mm loose tube, 3mm cable
- Fiber length: 0.5m, 1.0m, 1.5m, 2.0m
- Connector: none, FC/PC, FC/APC, ST, customer's request

**We have unbeatable price for this product.**

- Price is updating, please make a request for our most recent price by calling (514) 334-4588 or by emailing [sales2@o-eland.com](mailto:sales2@o-eland.com)