



## 1x2 (2x2) 50/125um Multi-Mode Broadband Splitter

### Features of our splitter:

- Low Insertion loss
- High Directivity
- Stable and Reliable
- Very Compact size

### Applications for our splitter:

- Optical Communications System
- LAN
- Optical Sensor
- Access Network

### Specifications:

| Specification         |      |      | Splitting Ratio: 50:50 |                                  |     |     |
|-----------------------|------|------|------------------------|----------------------------------|-----|-----|
| Parameter             |      | Unit | 1x2 or 2x2             |                                  |     |     |
| Grade                 |      |      | P                      | A                                | P   | A   |
| Central Wavelength    |      | nm   | 1310 or 1550           |                                  | 850 |     |
| Bandwidth             |      | nm   | +/-20                  |                                  |     |     |
| Insertion Loss        | Max. | dB   | 4.0                    | 4.5                              | 5.0 | 5.5 |
| Excess loss           | Typ. | dB   | 0.7                    | 1.0                              | 1.4 | 1.6 |
| Uniformity            | Max. | dB   | 0.5                    | 0.8                              | 0.5 | 0.8 |
| Return Loss           | Min. | dB   | 40                     |                                  |     |     |
| 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 3mm cable          |     |     |

| Splitting Ratio and Insertion Loss Conversion Table for 1310 or 1550±20nm |                             |               |               |               |
|---------------------------------------------------------------------------|-----------------------------|---------------|---------------|---------------|
| Splitting Ratio                                                           | Maximum Insertion Loss (dB) |               |               |               |
|                                                                           | Premium                     |               | A Grade       |               |
| Output Port                                                               | Output Port 1               | Output Port 2 | Output Port 1 | Output Port 2 |

|       |     |     |     |      |
|-------|-----|-----|-----|------|
| 60:40 | 3.2 | 5.0 | 3.7 | 5.6  |
| 70:30 | 2.4 | 6.3 | 2.9 | 7.0  |
| 80:20 | 1.7 | 8.2 | 2.3 | 9.0  |
| 90:10 | 1.2 | 12  | 1.8 | 12.8 |
| 95:5  | 0.8 | 16  | 1.5 | 16.8 |

| <b>Splitting Ratio and Insertion Loss Conversion Table for 850+/-20nm</b> |                             |               |               |               |
|---------------------------------------------------------------------------|-----------------------------|---------------|---------------|---------------|
| Splitting Ratio                                                           | Maximum Insertion Loss (dB) |               |               |               |
|                                                                           | Premium                     |               | A Grade       |               |
| Output Port                                                               | Output Port 1               | Output Port 2 | Output Port 1 | Output Port 2 |
| 60:40                                                                     | 4.0                         | 6.0           | 4.7           | 6.6           |
| 70:30                                                                     | 3.3                         | 7.3           | 3.9           | 8.0           |
| 80:20                                                                     | 2.3                         | 9.2           | 3.2           | 10.0          |
| 90:10                                                                     | 2.0                         | 12.5          | 2.7           | 13.5          |
| 95:5                                                                      | 1.6                         | 16.5          | 2.4           | 17.5          |

#### Ordering Information:

- Wavelength: 1550, 1310, 850nm
- Structure: 1x2, 2x2
- Splitting Ratio: 95:5, 90:10, 80:20, 70:30, 60:40, 50:50
- Grade: Premium (P, A grade)
- Fiber type: 50/125um
- 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)