### 1×2 1550nm PM FBT Splitter With Steel Tube, Slow Axis Working

The **1×2 1550nm PM FBT Splitter with Steel Tube** is an optical power splitter designed to divide a single input fiber into two output fibers at a wavelength of 1550nm, commonly used in long-range telecommunications and fiber-optic networks. The **PM (Polarization Maintaining)** feature ensures that the polarization state of the signal is preserved, which is crucial for applications requiring high precision, such as in sensors or advanced telecom systems. It uses **FBT (Fused Biconical Taper)** technology, a cost-effective method for fiber splitting, offering reliable performance, though with slightly higher insertion losses compared to other technologies like PLC splitters. The splitter is housed in a **steel tube**, providing mechanical protection and durability, making it suitable for harsh environments. This device is ideal for signal distribution in telecommunications, test equipment, and polarization-sensitive sensing applications.

## Specifications

| Parameter | Unit | Value |
|---|---|---|
| Port Configuration | – | 1×2 |
| Wavelength | nm | 1550 |
| Operating Bandwidth | nm | ±20 |
| Split Ratios | – | 1/99~50/50(Reference Data 50/50) |
| Insertion Loss | dB | ≤3.6 |
| Extinction Ratio | dB | ≥20 |
| Return Loss | dB | 55 |
| Fiber Type | – | PM Panda Fiber |
| Fiber Length | m | 1 Or Customize |
| Operating Temperature | ℃ | -10 ~ +70 |
| Storage Temperature | ℃ | -40 ~ +85 |
| Package Size | mm | Φ3×54 |

**Note:** For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower. The default conenctor key is aligned to slow axis.

## Dimension