

**Features**

- Low Insertion Loss
- High Isolation
- Excellent Temperature Stability
- Low Temperature Dependence

**Applications**

- EDFA
- Instrumentation
- Fiber Lasers
- Research

**Specifications**

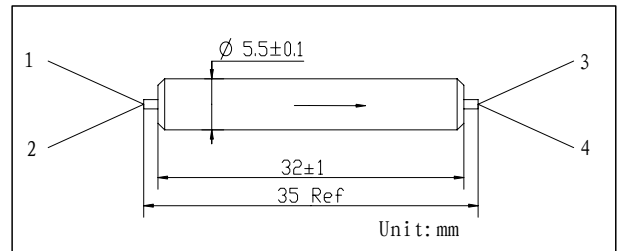
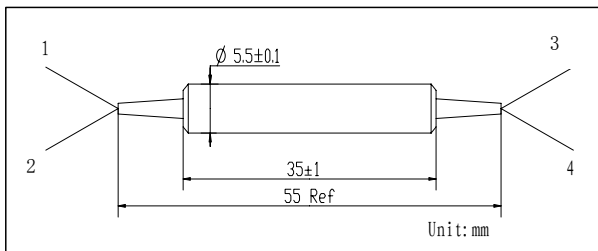
| Parameters  | Unit | Values             |                   |            |         |
|---|------|--------------------|-------------------|------------|---------|
|   |      | Single Stage       |                   | Dual Stage |         |
| Grade   |      | Grade P            | Grade A           | Grade P    | Grade A |
| Center Wavelength   | nm   | 1310, 1480 or 1550 |                   |            |         |
| Operating Wavelength Range  | nm   | ±20                |                   |            |         |
| Typ. Peak Isolation (Port 4 to Port 1, Port 3 to Port 2)                    | dB   | 42                 | 40                | 58         | 55      |
| Min. Isolation (Port 4 to Port 1, Port 3 to Port 2) at λc                   | dB   | 34                 | 32                | 52         | 50      |
| Typ. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3) at 23 °C           | dB   | 0.45               | 0.55              | 0.55       | 0.7     |
| Max. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3) at -5 °C-70 °C λ c | dB   | 0.65               | 0.75              | 0.75       | 0.9     |
| Min. Return Loss (Input/Output)   | dB   | 55 / 55            | 55 / 55           | 55 / 55    | 55 / 55 |
| Min. Directivity (Port 1 to Port 2, Port 3 to Port 4) at 23 °C              | dB   | 55                 | 55                | 55         | 55      |
| Min. Crosstalk (Port 1 to Port 3, Port 2 to Port 4) at 23 °C                | dB   | 55                 | 55                | 55         | 55      |
| Max. PDL at 23 °C   | dB   | 0.06               | 0.1               | 0.08       | 0.15    |
| Max. PMD  | ps   | 0.2 <sup>1</sup>   | 0.25 <sup>1</sup> | 0.05       | 0.07    |
| Max. Optical Power (CW)   | mW   | 500                |                   |            |         |
| Max. Tensile Load   | N    | 5                  |                   |            |         |
| Fiber Type  |      | SMF-28e Fiber      |                   |            |         |
| Operating Temperature   | °C   | -5 to +70          |                   |            |         |
| Storage Temperature   | °C   | -40 to +85         |                   |            |         |

<sup>1</sup>PMD<0.05ps is available. Please refer to below ordering information.

\*Above specifications are for device without connector.

\*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

**Package Dimensions**



**Ordering Information**

**TPII-①①-②③-④⑤⑤⑤⑤⑤-⑥⑥⑥⑥-⑦-⑧**

①①: Wavelength

- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify

②:Grade

- P - Premium Grade
- A - A Grade

③: Stage

- S - Single Stage
- D - Dual Stage

④: PMD

- 1 - 0.05ps Max
- 2 - Refer to above Spec.

⑤⑤⑤⑤⑤:Connector Type on Port 1, 2, 3 & 4

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- N - None
- S - Specify

⑥⑥⑥⑥: Fiber Jacket on Port 1, 2, 3 & 4

- B - 250um Bare Fiber
- L - 900um Loose Tube

⑦: Fiber Length

- 1 - 1.0m
- S - Specify

⑧: Package Length

- 1 - 35mm
- 2 - 32mm