

1310/1550 nm WDM Coupler (Ultra-high Isolation)



FEATURES

- ✓ Low Insertion Loss
- ✓ Low PDL
- ✓ High Isolation
- ✓ High Reliability and Stability

APPLICATIONS

- WDM systems
- CATV Network
- Optical Communication System

1310/1550 WDM Coupler Specifications

| Parameters | Standard WDM Coupler | | High Isolation WDM Coupler | | Ultra-high Isolation WDM Coupler | |
|---------------------------|----------------------------|------|----------------------------|-------|----------------------------------|-------|
| Configuration | 1x2 or 2x2 | | | | | |
| Operating Wavelength (nm) | 1310 & 1550 | | | | | |
| Operating Bandwidth (nm) | ± 15 | | | | | |
| Grade | P | A | P | A | P | A |
| Insertion Loss (dB) | ≤0.2 | ≤0.3 | ≤0.5 | ≤0.6 | ≤0.5 | ≤0.6 |
| Isolation (dB) | ≥17 | ≥16 | ≥32 | ≥30 | ≥40 | ≥38 |
| PDL (dB) | ≤0.05 | ≤0.1 | ≤0.1 | ≤0.15 | ≤0.1 | ≤0.15 |
| Directivity (dB) | ≥55 | | | | | |
| Fiber Type | SMF-28e; Others on Request | | | | | |
| Working Temperature (°C) | -40 ~ +85 | | | | | |
| Pigtail Type | Package (mm) | | | | | |
| 250μm Bare Fiber | Steel Tube, Φ3.0 × 54 / 40 | | Steel Tube, Φ4.0 × 75 | | / | |
| 900μm Loose Tube | Steel Tube, Φ3.0 × 54 | | Steel Tube, Φ4.0 × 75 | | ABS Box, 100x80x10 | |
| 2 mm or 3 mm Cable | Custom-sized ABS Box | | Custom-sized ABS Box | | ABS Box, 100x80x10 | |

Notes: All the data are tested without connectors. The insertion loss of one pair of connector is less than 0.3 dB. Specifications are subject to change without notice and can be made on customer request.



Order Information

| | Port | Grade | Wavelength | Fiber Type | Pigtail | Package | Fiber Length | Connector |
|--|------|-------|------------|------------|---------|------------|---------------|-----------|
| Standard (High / Ultra- high Isolation) WDM Coupler | 1x2 | P | 1310/1550 | SMF-28e | 250 μm | Φ3 × 54 | 0.50 ± 0.05 m | None |
| | 2x2 | A | | Custom ... | 900 μm | Φ4 × 75 | 1.00 ± 0.1 m | LC/UPC |
| | | | | | 2 mm | Custom ... | Custom ... | LC/APC |
| | | | | | 3 mm | | | SC/UPC |
| | | | | | | | | SC/APC |
| | | | | | | FC/UPC | | |
| | | | | | | | FC/APC | |
| | | | | | | | Custom ... | |

