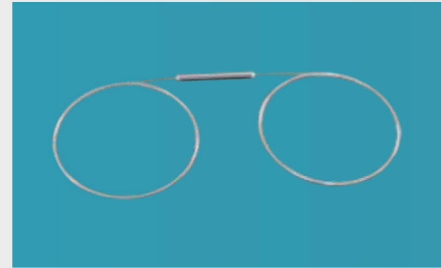


1×2 (2×2) Polarization-maintaining Fiber Coupler

Product Description

The 1×2 (2×2) polarization-maintaining fiber coupler fabricated by using special polarization-maintaining fiber and strong-fused tapering process can divide the polarized light into two beams with the same polarization state as the input light, and can support any splitting ratio as required. The product has passed GR-1209-CORE and GR-1221-CORE reliability tests and various military environmental assessment tests. Boasting stable performance and high reliability, the product has been applied in multiple national key projects.

Product Picture



Product Application

- Coherent optical communication
- Fiber optic amplifier
- FOG
- Fiber optic instrument
- Fiber optic sensor

Product Features

- High reliability
- High extinction ratio
- High impact resistance
- Low additional loss
- Good environmental stability

Performance Indicators At Room Temperature Range (+18°C~+28°C)

| Parameters \ Performance level | Unit | Level A | Level B | Level C |
|--------------------------------|------|--|-----------|------------|
| Operation Wavelength | nm | 1310/1550 | | |
| Splitting Ratio | / | 50.0±3.0% | 50.0±5.0% | 50.0±10.0% |
| Additional Loss | dB | ≤0.50 | ≤0.60 | ≤0.80 |
| Extinction Ratio | dB | ≥20.0 | ≥18.0 | ≥15.0 |
| Return Loss | dB | ≥50.0 | | |
| Operation Temperature | °C | -40 ~ +70 | | |
| Storage Temperature | °C | -55 ~ +85 | | |
| Pigtail Length | m | 1.0±0.2 (or as required) | | |
| Package Size | mm | Φ3.0x38/Φ2.4x38 | | |
| Pigtail Specification | / | 125/250μm (panda polarization-maintaining fiber or according to user requirements) | | |

Performance Indicators At Operation Temperature Range (-40°C~+70°C)

| Parameters \ Performance level | Unit | Level A | Level B | Level C |
|--------------------------------|------|---------|---------|---------|
| Variation In Additional Loss | dB | ≤0.20 | ≤0.30 | ≤0.50 |
| Variation In Splitting Ratio | / | ≤5.0% | ≤6.0% | ≤7.0% |
| Extinction Ratio | dB | ≥18.0 | ≥15.0 | ≥13.0 |