

Single Mode Standard Couplers

Product Features

- Low insertion loss
- High return loss
- High stability and reliability

Product Applications

- Fiber communication on system test Test
- Optical passive component test
- Optics lab use

Specifications

| Parameter | Unit | Value | | | |
|-----------------------------|-------|---------------------------------|---------|---------|---------|
| Operating Wavelength | nm | 1310 or 1550, others on request | | | |
| Bandwidth | nm | ±20 | | | |
| Excess Loss | dB | ≤ 0.10 | | | |
| Coupling Ratio | % | 50/50 | 40/60 | 30/70 | 20/80 |
| Typ. Insertion Loss | dB | 3.05 | 4.1/2.3 | 5.3/1.6 | 7.1/1.0 |
| Max. Insertion Loss | dB | 3.3 | 4.4/2.5 | 5.6/1.8 | 7.4/1.2 |
| Polarization Dependent Loss | dB | ≤0.10 | | | |
| Thermal Stability | dB/°C | ≤0.002 | | | |
| Return Loss | dB | ≥50 | | | |
| Directivity (dB) | 1X2 | ≥50, ≥60 on request | | | |
| | 2X2 | ≥ 65 | | | |

* The above specification is without connector.

** Other specifications can be made on customer request.

Ordering Information

| Configuration | 1x2 or 2x2 | | |
|----------------------------|---------------------|------------------------|-----------------------------|
| Lead Type | 0: 250um bare fiber | 1: 900um loose tube | 2: 3mm loose cable (or 2mm) |
| Package Dimensions (mm) | A: φ 3.0x40 | A: φ 3.0x56 B: 90x16x9 | B: 90x16x9 C: 106x79x10 |
| Operating Temperature (°C) | -40 to +85 | -20 to +70 | -20 to +70 |

| Ordering Information | | | | | | |
|-----------------------------|---------------------------|------------------------------------|--|--|-------------------------------------|---|
| SC | Configur ation | Central Wavelen gth | Coupling Ratio (%) | Pigtail Type | Fiber Length | Connector |
| | 1X2 2X2 | 1310nm 1550nm Specify | 1:99 20:80 40:60 50:50 Specify | 250um bare fiber 900um loose tube Specify | 0.5m 1m 1.5m 2m Specify | N=None FC/APC FC/UPC SC/APC SC/UPC LC/UPC Specify |