

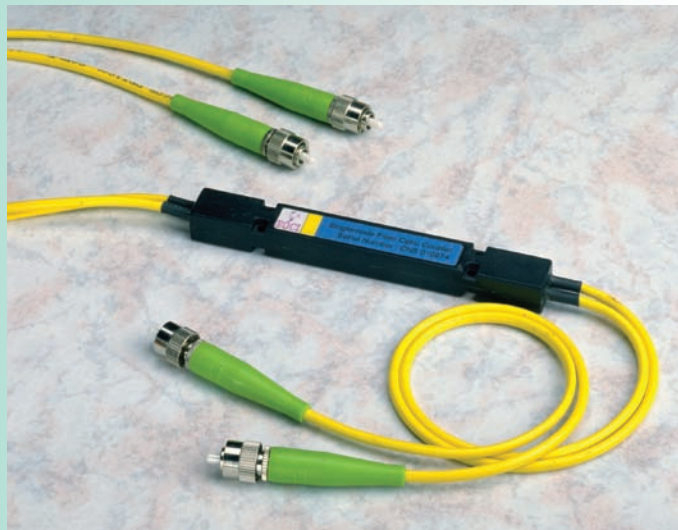
C-WS SINGLEMODE WIDEBAND COUPLERS

Features:

- Low insertion loss
- High uniformity
- Customized packaging available
- Environmentally stable

Applications:

- Telecommunications
- Local area network
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments
- CATV
- Local area networks
- Point to point systems



Performance Specifications:

| ITEM | Singlemode Wideband Couplers (50:50) | |
|-----------------------------------|---|--------------|
| Operating Wavelength, nm | 1310 ± 40 or 1550 ± 40 | |
| Grade | Super (S) | High (H) |
| Typical Excess Loss, dB | 0.1 | 0.2 |
| Uniformity, dB (50:50) | 0.6 | 1.0 |
| Thermal Stability, dB (peak-peak) | ≤0.2 | ≤0.3 |
| Polarization Stability, dB | ≤0.15 | ≤0.2 |
| Port Configuration | 1 x 2 or 2 x 2 | |
| Insertion Loss, dB | Please refer to the coupling ratio vs. insertion loss chart | |
| Directivity, dB | ≥50 (1 x 2), ≥60 (2 x 2) | |
| Reflectance, dB | ≥55 | |
| Operating Temperature, °C | -20 ~ +70 (*) | |
| Storage Temperature, °C | -55 ~ +85 | |
| Package Options | 1. coated fiber (250μm) | T5, MA,MB,M3 |
| | 2. loose tube (900μm) | TA, MA,MB,M3 |
| | 3. PVC cable (3.0mm) | A1, MA,MB,M3 |

Note: 1. The packaging option codes are explained in Appendix.

2. * 0°C ~ +70°C for 900μm, 2.0mm, or 3.0mm cable.

3. Coupling Ratio option: 1:99 to 50:50

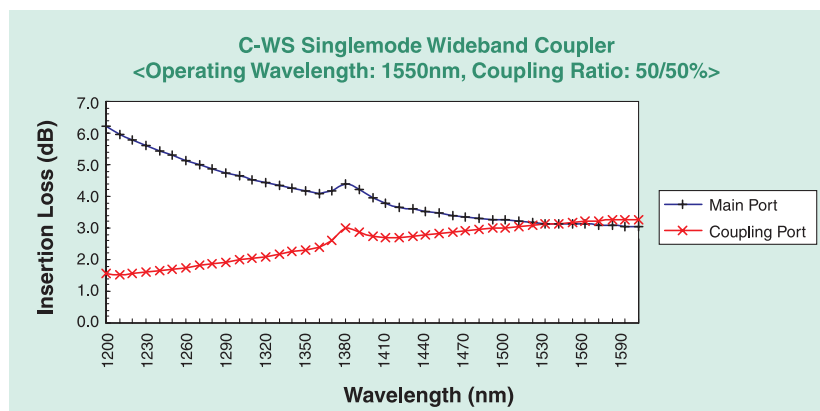
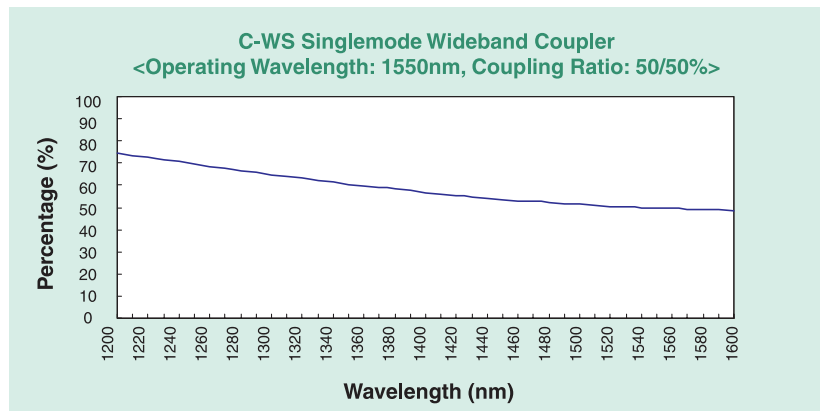
SINGLEMODE WIDEBAND COUPLERS

Coupling Ratio VS. Insertion Loss:

| Coupling Ratio (%) | Insertion Loss (dB) | |
|--------------------|---------------------|----------------|
| | Super Grade (S) | High Grade (H) |
| 50 / 50 | 3.4 | 3.6 |
| 45 / 55 | 3.9 / 2.9 | 4.25 / 3.25 |
| 40 / 60 | 4.4 / 2.5 | 4.7 / 2.7 |
| 35 / 65 | 5.1 / 2.2 | 5.45 / 2.4 |
| 30 / 70 | 5.8 / 1.9 | 6.0 / 1.9 |
| 25 / 75 | 6.7 / 1.6 | 7.05 / 1.7 |
| 20 / 80 | 7.6 / 1.1 | 7.9 / 1.2 |
| 15 / 85 | 9 / 0.96 | 10.46 / 1.05 |
| 10 / 90 | 11.0 / 0.63 | 12.9 / 0.8 |
| 5 / 95 | 14.6 / 0.4 | 18.4 / 0.5 |
| 1 / 99 | 21.6 / 0.3 | 21.6 / 0.4 |

* Without Connector Loss

Spectral Performance:



SINGLEMODE WIDEBAND COUPLERS

Ordering Information:

C - WS - □ □ - □ □ - □ - □ □ □ □ - □ □ - □ □ / □ □

Fiber Type(for both ends)

- A Corning SMF-28e+
- J G.657. A1 fiber

Package Option

- C Corning SMF-28e
- D MA/MB/M3 with coated fiber
- L TA with loose tube cable
- M MA/MB/M3 with loose tube cable
- O A1 with PVC 2.0mm cable
- Q A1 with PVC 3.0mm cable
- R MA/MB/M3 with PVC 3.0mm cable
- S MA/MB/M3 with adaptors
- X Others, please specify

Coupling Ratio

01 ~ 50 Please specify

Grade

- S Super
- H High

Port Number

- 12 1 x 2
- 22 2 x 2

Pigtail Length (for each port)

- | | | | |
|----|-----------|----|------------------------|
| 10 | 1 meter | 05 | 0.5 meter |
| 20 | 2 meter | 15 | 1.5 meter |
| 00 | Modulized | XX | Others, please specify |

Wavelength

- 13 1310nm
- 15 1550nm

Connector Type (Input / Output)

- | | | | |
|----|------------------------|----|-------------|
| FC | FC type | AP | FC/APC type |
| SC | SC type | AS | SC/APC type |
| ST | ST type | LC | LC type |
| MU | MU type | NC | None |
| XX | Others, please specify | | |