


## 1x4 Monolithic Single Mode Coupler

|   |  |
|---|--|
| <b>Features</b>   |  |
| Low excess loss & Low IL<br>Mini Size<br>High stability and reliability |  |
| <b>Application</b>  |  |
| Optical communication systems<br>FTTH<br>Optical fiber sensor           |  |

### Specifications

| Type<br>Parameter          | 1x4 CP-S    |       | 1x4CP-W |       | 1x4 CP-D  |      | 1x4 CP-T                     |      |
|----------------------------|-------------|-------|---------|-------|-----------|------|------------------------------|------|
| Operating wavelength (nm)  | 1310, 1550, |       |         |       | 1310/1550 |      | 1310/1490/1550               |      |
| Operating bandwidth (nm)   | ±15         |       | ±40     |       | ±40       |      | 1310±40, 1490±10 and 1550±40 |      |
| Grade                      | P           | A     | P       | A     | P         | A    | P                            | A    |
| Typical excess loss (dB)   | 0.15        | 0.25  | 0.2     | 0.3   | 0.3       | 0.4  | 0.3                          | 0.4  |
| Insertion loss (dB)        | ≤7.0        | ≤7.4  | ≤7.1    | ≤7.4  | ≤7.2      | ≤7.5 | ≤7.2                         | ≤7.5 |
| PDL(dB)                    | ≤0.2        | ≤0.25 | ≤0.2    | ≤0.25 | ≤0.25     | ≤0.3 | ≤0.25                        | ≤0.3 |
| Uniformity (dB)            | ≤1.0        | ≤1.4  | ≤1.2    | ≤1.6  | ≤1.4      | ≤1.8 | ≤1.4                         | ≤1.8 |
| Directivity (dB)           | ≥55         |       |         |       |           |      |                              |      |
| Operating temperature (°C) | -40 ~ +85   |       |         |       |           |      |                              |      |

### Package Information

|                |                       |                   |
|----------------|-----------------------|-------------------|
| Configuration  | 1x4                   |                   |
| Fiber length   | 1m, others on request |                   |
| Fiber Type     | SMF-28e               |                   |
| Pigtail type   | 250µm bare fiber      | 900µm loose tube  |
| Dimensions(mm) | φ3.0×54 or φ 4.0×40   | φ4.0×75 & φ4.0×56 |

### Ordering Information

| CP | Type  | Grade  | Port Type    | Wavelength (nm)           | Coupling Ratio | Pigtail Type                                 | Fiber Type | Length           | Connector   | Package                        |
|----|---|--------|--------------|---------------------------|----------------|--|------------|------------------|---|--------------------------------|
|    | <b>S</b> = Single mode standard coupler<br><b>W</b> =Wide band coupler<br><b>D</b> =Dual window coupler<br><b>T</b> =Three Window coupler | P<br>A | 1x4<br>..... | 1310<br>1550<br>1310/1550 | EVEN           | 250=250um bare fiber<br>900=900um loose tube | 1=SMF-28e  | 1= 1m<br>X:other | NE=None<br>FA=FC/APC<br>FC=FC/UPC<br>SA=SC/APC<br>SC=SC/UPC<br>LC=LC/UPC<br>LA=LC/APC<br>MU=MU/UPC<br>XX=Others | 3x54<br>4x40<br>4x75<br>4.0x56 |