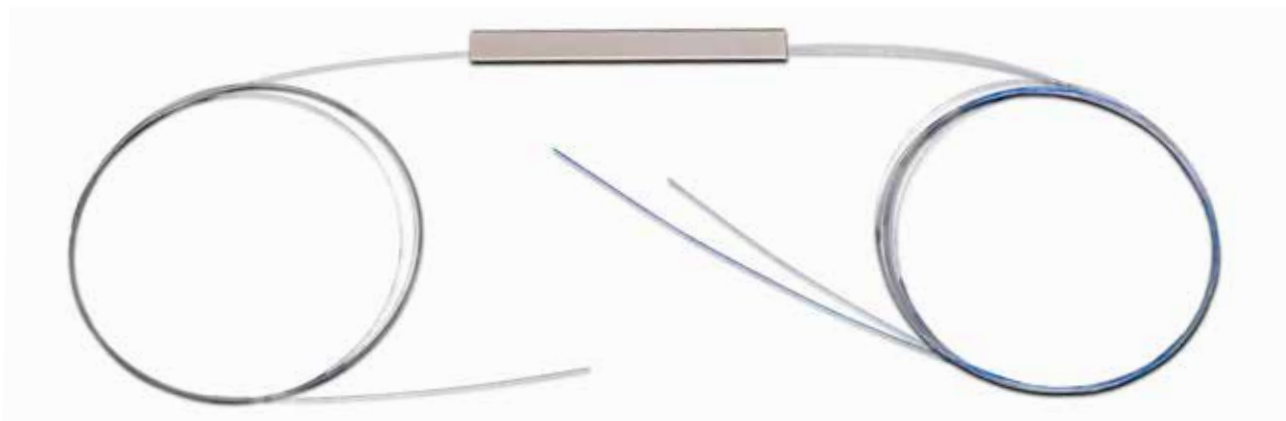


## FUSED BICONIC COUPLERS

### Single Mode Fiber Coupler 1x2



| PARAMETERS                         | VALUES                                       | UNIT |
|------------------------------------|----------------------------------------------|------|
| Type                               | 1x2                                          |      |
| Coupling Ratio                     | 50/50                                        |      |
| Insertion loss Max. <sup>1,2</sup> | See below Table                              |      |
| Uniformity Max.                    | See below Table                              |      |
| Return loss Min.                   | 55                                           | dB   |
| Directivity Min.                   | 55                                           | dB   |
| PDL Max.                           | See below Table                              |      |
| WDL Max. <sup>3</sup>              | See below Table                              |      |
| TDL at -5~70c Max.                 | 0.15                                         | dB   |
| Housing dimension                  | Fiber 3.0 (Ø) x 54 (L)<br>60(L) x 7(W) x4(H) | mm   |
| Fiber Type                         | SMF-28e 250µm bare fiber                     |      |
| Operating temperature              | -40 ~ +85                                    | °C   |
| Storage temperature                | -40 ~+85                                     | °C   |

| DESCRIPTION                                     | IL (dB)<br>TYP. / MAX. | PDL (dB)<br>MAX. | UNIFORMITY<br>(dB) MAX. | WDL(dB)<br>MAX. |
|-------------------------------------------------|------------------------|------------------|-------------------------|-----------------|
| Single Wavelength Band (1310±40 or 1550 ±40 nm) | 3.2 / 3.4              | 0.15             | 0.3                     | 0.2             |

### FEATURES

- High Reliability
- Robust Performance
- Compact Package
- RoHS Compliant

### APPLICATIONS

- Telecommunications
- Network Monitoring
- FTTX

Note:

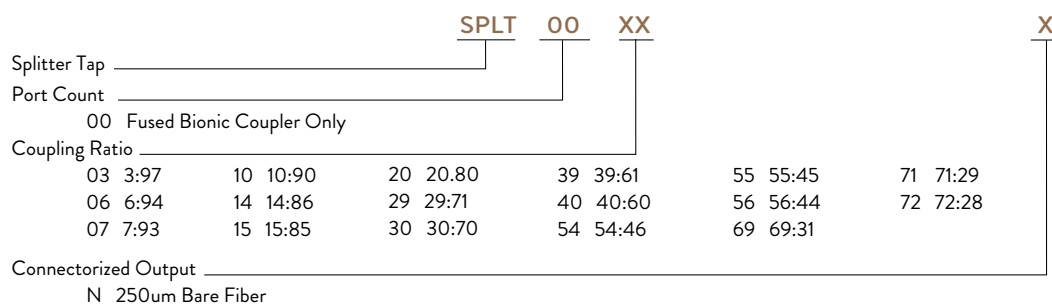
1. The performance values do not include connectors..IL are worst case including PDL, TDL, and WDL.
2. WDL means IL change over Single wavelength band. Only for each window band, not including water peak band.

Channell's Single Mode Fiber Couplers are highly stable for multi-port optical signal splitting with low insertion loss. All devices are qualified according to industry standard test procedures .

## Single Mode Fiber Coupler 1x2 (All coupling Ratio)

| PART #    | DESCRIPTION                                                                   | Max IL Drop | Max IL Tap | Coupling Ratio |
|-----------|-------------------------------------------------------------------------------|-------------|------------|----------------|
| SPLT0003N | Splitter Tap, 1x2 coupler only, 3:97 coupling ratio, 250um leads, 1M pigtail  | 15.50       | 0.14       | 3:97           |
| SPLT0006N | Splitter Tap, 1x2 coupler only, 6:94 coupling ratio, 250um leads, 1M pigtail  | 12.50       | 0.28       | 6:94           |
| SPLT0007N | Splitter Tap, 1x2 coupler only, 7:93 coupling ratio, 250um leads, 1M pigtail  | 12.00       | 0.35       | 7:93           |
| SPLT0010N | Splitter Tap, 1x2 coupler only, 10:90 coupling ratio, 250um leads, 1M pigtail | 10.50       | 0.48       | 10:90          |
| SPLT0014N | Splitter Tap, 1x2 coupler only, 14:86 coupling ratio, 250um leads, 1M pigtail | 9.00        | 0.68       | 14:86          |
| SPLT0015N | Splitter Tap, 1x2 coupler only, 15:85 coupling ratio, 250um leads, 1M pigtail | 8.60        | 0.75       | 15:85          |
| SPLT0020N | Splitter Tap, 1x2 coupler only, 20:80 coupling ratio, 250um leads, 1M pigtail | 7.50        | 1.00       | 20:80          |
| SPLT0029N | Splitter Tap, 1x2 coupler only, 29:71 coupling ratio, 250um leads, 1M pigtail | 5.55        | 1.65       | 29:71          |
| SPLT0030N | Splitter Tap, 1x2 coupler only, 30:70 coupling ratio, 250um leads, 1M pigtail | 5.50        | 1.70       | 30:70          |
| SPLT0039N | Splitter Tap, 1x2 coupler only, 39:61 coupling ratio, 250um leads, 1M pigtail | 4.35        | 2.25       | 39:61          |
| SPLT0040N | Splitter Tap, 1x2 coupler only, 40:60 coupling ratio, 250um leads, 1M pigtail | 4.30        | 2.50       | 40:60          |
| SPLT0044N | Splitter Tap, 1x2 coupler only, 44:56 coupling ratio, 250um leads, 1M pigtail | 3.80        | 2.80       | 44:56          |
| SPLT0045N | Splitter Tap, 1x2 coupler only, 45:55 coupling ratio, 250um leads, 1M pigtail | 3.85        | 2.90       | 45:55          |
| SPLT0046N | Splitter Tap, 1x2 coupler only, 46:54 coupling ratio, 250um leads, 1M pigtail | 3.50        | 3.00       | 46:54          |
| SPLT0054N | Splitter Tap, 1x2 coupler only, 54:46 coupling ratio, 250um leads, 1M pigtail | 3.00        | 3.50       | 54:46          |
| SPLT0056N | Splitter Tap, 1x2 coupler only, 56:44 coupling ratio, 250um leads, 1M pigtail | 2.80        | 3.80       | 56:44          |
| SPLT0060N | Splitter Tap, 1x2 coupler only, 60:40 coupling ratio, 250um leads, 1M pigtail | 2.50        | 4.30       | 60:40          |
| SPLT0069N | Splitter Tap, 1x2 coupler only, 69:31 coupling ratio, 250um leads, 1M pigtail | 1.90        | 5.30       | 69:31          |
| SPLT0071N | Splitter Tap, 1x2 coupler only, 71:29 coupling ratio, 250um leads, 1M pigtail | 1.65        | 5.55       | 71:29          |
| SPLT0072N | Splitter Tap, 1x2 coupler only, 72:28 coupling ratio, 250um leads, 1M pigtail | 1.70        | 5.80       | 72:28          |

## PART NUMBER MATRIX



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