

Specification for PLC Splitter

Description

Planar Lightwave Circuit Splitter (PLC Splitters) is a technology based on planar waveguide optical power distribution products, with low insertion loss and polarization dependent loss, small size, wide operating wavelength range, high channel uniformity and good characteristics. Especially for passive optical network (EPON, BPON, GPON, etc.) to connect the central office and terminal equipment and optical signal splitter to achieve. All products comply with Telcordia GR-1209-CORE, Telcordia GR-1221-CORE, YD / T 1117-2001 and RoHS standards.

Features

- Ultra-low insertion loss and polarization dependent loss
- good spectral uniformity
- wide wavelength bandwidth,
- a wide range of working environment
- High reliability
- Compact dimension

Applications

- widely used for FTTX
- Passive Optical Network (OPN)
- Cable TV Network (CATV)
- other optical signal splitter system

Standard compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1209-CORE
- YD/T1117-2001

Specification for PLC Splitter

Specifications

| 1 x N | | | | | | | |
|-------------------------------------|-----------|---------------------------------------|---------|-----------|-----------|-----------|-----------|
| Parameters | Unit | Specification | | | | | |
| | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
| Operating Wavelength | nm | 1260-1650 | | | | | |
| Insertion Loss | standard | 3.6 | 7.0 | 10.2 | 13.3 | 16.5 | 20.0 |
| | MAX (P/S) | 3.8/4.0 | 7.2/7.4 | 10.3/10.7 | 13.5/13.9 | 16.5/17.2 | 20.0/21.5 |
| PDL | dB | ≤0.2 | ≤0.2 | ≤0.2 | ≤0.3 | ≤0.3 | ≤0.3 |
| Loss Uniformity | dB | ≤0.6 | ≤0.8 | ≤1.0 | ≤1.4 | ≤1.6 | ≤1.9 |
| Return Loss | dB | ≥55 | ≥55 | ≥55 | ≥55 | ≥55 | ≥55 |
| Wavelength Dependent Loss | dB | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 |
| Fiber Length | m | 1.2(±0.1) or customer specified | | | | | |
| Fiber Type | | Corning SMF-28e or customer specified | | | | | |
| Temperature Stability (-40 to +85℃) | dB | ≤0.5 | | | | | |
| Operation Temperature | ℃ | -40 to +85 | | | | | |
| Max Optical input power | mW | 300 | | | | | |

Remark :1, Operating wavelength is warranted by design;

The testing report offers the data at 1310nm& 1550nm.

2, The data above include the loss of connectors.

| 2 x N | | | | | | | |
|-------------------------------------|------|---------------------------------------|---------|-----------|-----------|-----------|-----------|
| Parameters | Unit | Specification | | | | | |
| | | 2x2 | 2x4 | 2x8 | 2x16 | 2x32 | 2x64 |
| Operating Wavelength | nm | 1260-1650 | | | | | |
| Insertion loss (P/S) | dB | 3.9/4.2 | 7.3/7.6 | 10.5/11.0 | 14.0/14.8 | 17.4/17.9 | 21.0/21.5 |
| PDL | dB | ≤0.2 | ≤0.2 | ≤0.2 | ≤0.3 | ≤0.3 | ≤0.3 |
| Loss Uniformity | dB | ≤0.6 | ≤0.8 | ≤1.0 | ≤1.4 | ≤1.6 | ≤1.9 |
| Return Loss(P/S) | dB | ≥55 | ≥55 | ≥55 | ≥55 | ≥55 | ≥55 |
| Wavelength Dependent Loss | dB | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 |
| Fiber length | m | 1.2(±0.1) or customer specified | | | | | |
| Fiber type | | Corning SMF-28e or customer specified | | | | | |
| Wavelength Dependent Loss | dB | ≤0.5 | | | | | |
| Temperature stability (-40 to +85℃) | dB | ≤0.5 | | | | | |
| Operating /storage temperature | ℃ | -40 to +85 | | | | | |
| Max Optical input power | mW | 300 | | | | | |

Remark :1, Operating wavelength is warranted by design;

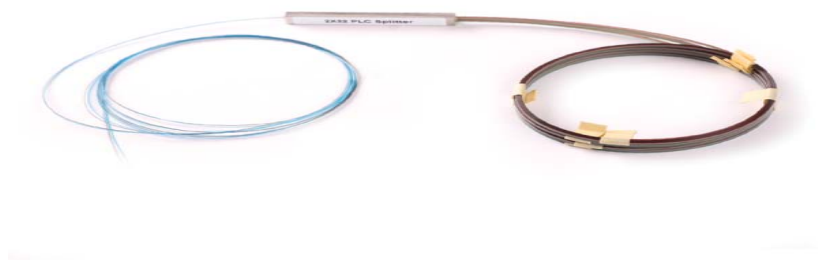
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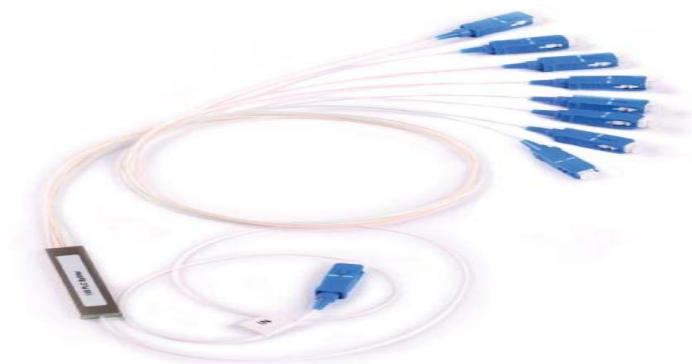
Products Series

Bare fiber type PLC Splitter



| | | | | | | | | | | | | |
|-----------|--------|-----|-----|--------|------|---------|--------|-----|-----|--------|------|--|
| type | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 | 2x2 | 2x4 | 2x8 | 2x16 | 2x32 | |
| L x W x H | 40x4x4 | | | 50x7x4 | | 60x12x4 | 55x4x4 | | | 55x7x4 | | |

Mini package type PLC splitter



| | | | | | | | | | | |
|-----------|--------|-----|-----|---------|---------|--------|-----|-----|---------|---------|
| Item | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 2x2 | 2x4 | 2x8 | 2x16 | 2x32 |
| L x W x H | 55x7x4 | | | 60x12x4 | 80x20x6 | 60x7x4 | | | 60x12x4 | 80x20x6 |

Specification for PLC Splitter

Cassette type PLC splitter



| Item | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 | 2x2 | 2x4 | 2x8 | 2x16 | 2x32 |
|-----------------------|-----------|-----|-----|-----------|-------------------------|------------|-----------|-----|-----|-----------|------------|
| Lx W x H | 100x80x10 | | | 120x80x18 | 120x80x18 140x114x18 | 140x114x18 | 100x80x10 | | | 120x80x18 | 140x114x18 |
| Locating hole (L x W) | 70x74 | | | 80x74 | 80x74 100x106 | 100x106 | 70x74 | | | 80x74 | 100x106 |

Box type PLC Splitter



R type box



Standard 19-inch 1U panel

Specification for PLC Splitter



Pallet type



Wall mounting type

Splice closure mounted PLC splitter

