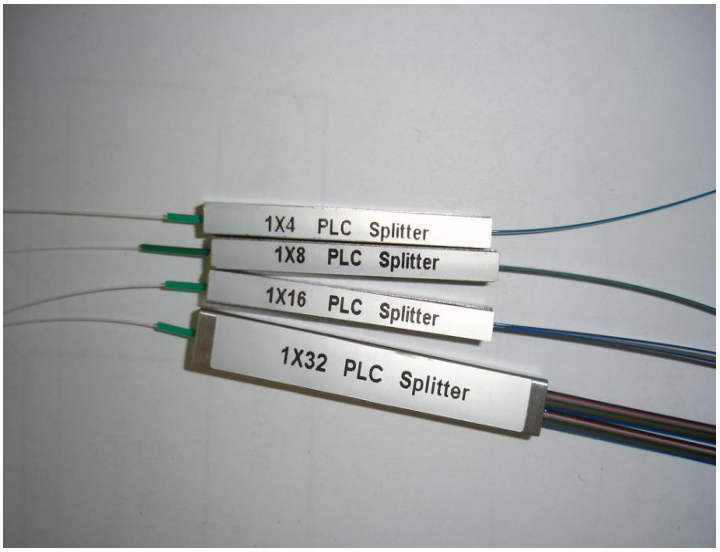
# Fiber Optical PLC Splitter

## Description

Planar light wave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. We provide whole series of 1xN and 2xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE and GR-1221-CORE requirements.




## Features

- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength:
  From 1260nm to 1650nm
- Wide Operating Temperature:
  From -40℃ to 85℃
- High Reliability and Stability

## Applications

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

## Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- RoHS

## Specifications

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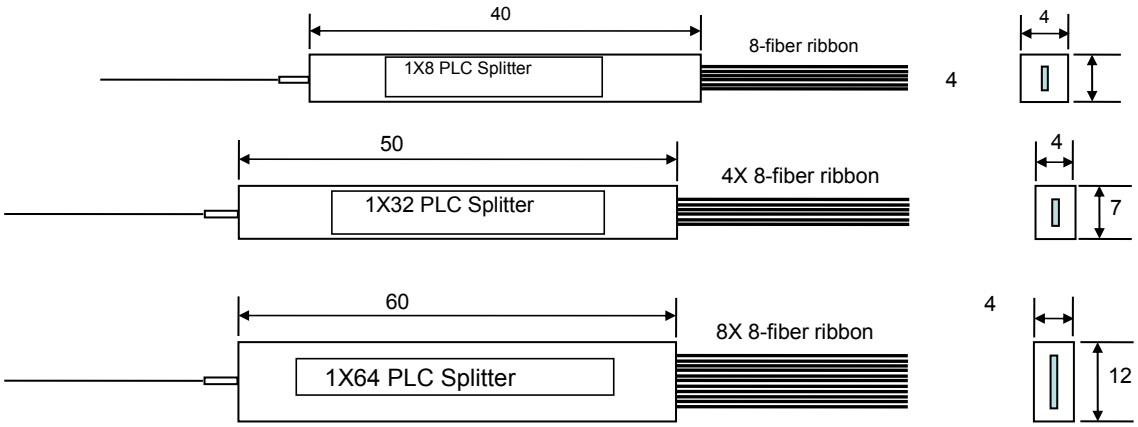
## Table 1 – 1×N PLC Splitter

| Parameters | 1×2 | 1×4 | 1×8 | 1×16 | 1×32 | 1×64 | 1×128 |
|---|---|---|---|---|---|---|---|
| Operating Wavelength (nm) | 1260～1650 | | | | | | |
| Fiber Type | G657A1 or customer specified | | | | | | |
| Insertion Loss (dB)（P/S Grade） | 3.8/4.0 | 7.1/7.3 | 10.2/10.5 | 13.5/13.7 | 17/17.4 | 20./20.4 | 23.8/24.2 |
| Loss Uniformity (dB) | 0.4 | 0.6 | 0.8 | 1.2 | 1.5 | 2.0 | 2.5 |
| Polarization Dependent Loss(dB) | 0.2 | 0.2 | 0.2 | 0.25 | 0.3 | 0.35 | 0.4 |
| Return Loss (dB)（P/S Grade） | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 |
| Directivity (dB) | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Wavelength Dependent Loss (dB) | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 |
| Temperature Stability (-40～85 ℃)(dB) | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |
| Operating Temperature (℃) | -40～85 | | | | | | |
| Storage Temperature (℃) | -40～85 | | | | | | |
| Device Dimension (mm) | 4x4x40 | 4x4x40 | 4x4x40 | 4x7x50 | 4x7x50 | 4x12x60 | N/A |
| Module Dimension (mm) | 100x80x10 | 100x80x10 | 100x80x10 | 120x80x18 | 120x80x18 | 141x115x18 | 140×115×18 |
| Mini-Module Dimension (mm) | 4x4x40 | 4x7x60 | 4x7x60 | 4x12x60 | 6x20x80 | 6x40x80 | N/A |

## Dimensions

### PLC Splitter




### PLC Splitter Mini-Module

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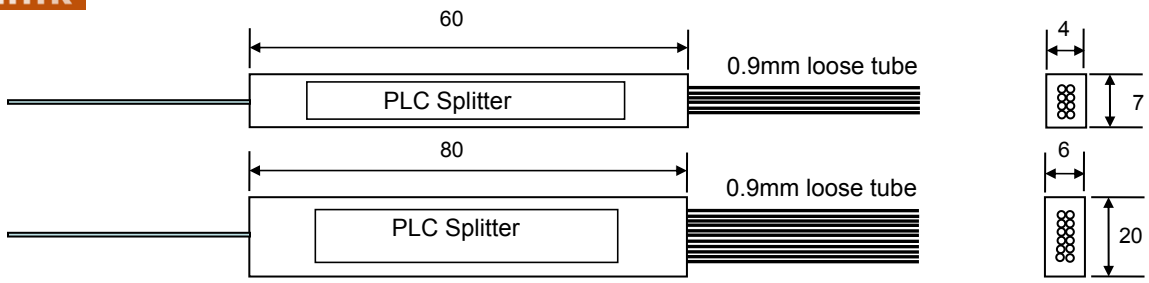
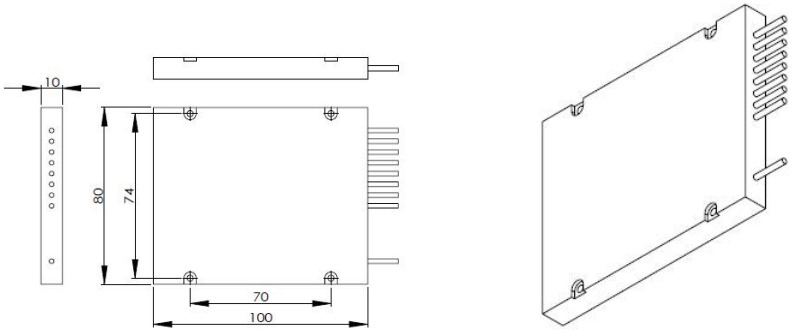
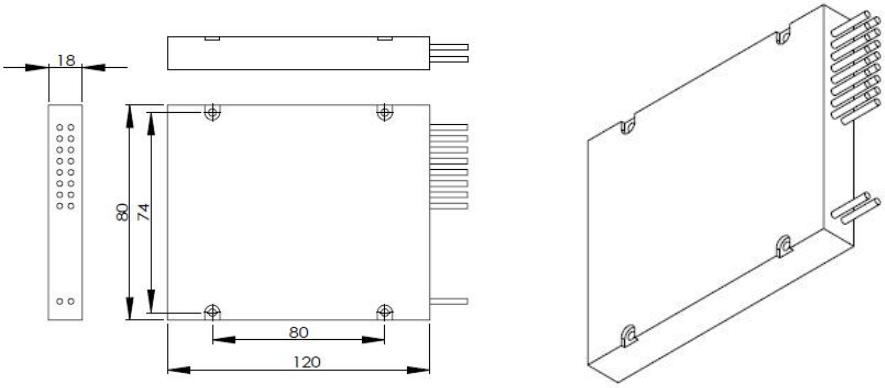



## PLC Splitter Module




100X80X10




120X80X18

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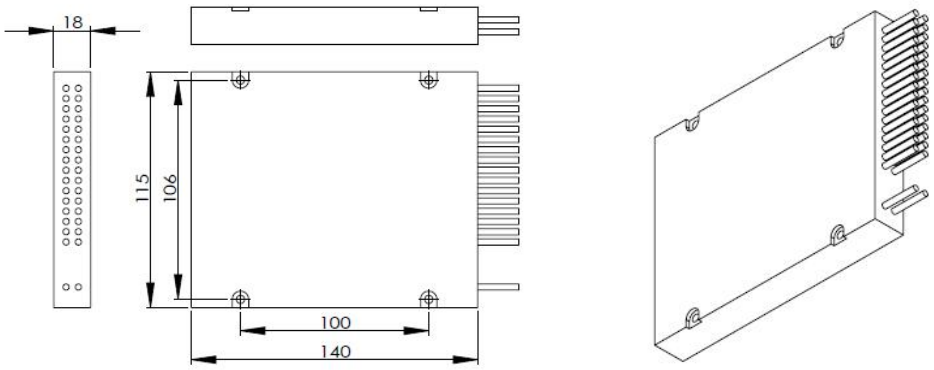


140X115X18