

## Description

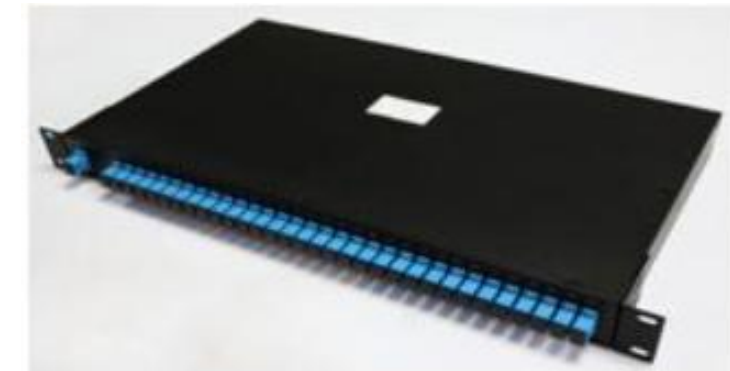
Planar Lightwave Circuit(PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology . It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. Provides whole series of 1XN and 2XN splitter products that are tailored for specific applications.

## Features

- Low Insertion Loss
- Low PDL
- High Reliability and Stability
- Meet GR-1221 and GR-1209 standard
- Meet ROHS standard

## Applications

- FTTH
- Passive Optical Network
- Mobile, Telecom Network
- LAN & MAN
- CATV Links
- Test equipment



**Performance Specifications: 1×N PLC Splitter**

| Parameters                      | 1x2                            | 1x4     | 1x8       | 1x16      | 1x32      | 1x64      | 1x128     |
|---------------------------------|--------------------------------|---------|-----------|-----------|-----------|-----------|-----------|
| Operating Wavelength (nm)       | 1260~1650                      |         |           |           |           |           |           |
| Fiber Type                      | G657A1 or customer specified   |         |           |           |           |           |           |
| Insertion Loss (dB) (P/S Grade) | 3.8/4.0                        | 7.2/7.4 | 10.3/10.7 | 13.5/13.7 | 16.5/16.9 | 20.5/21.0 | 23.8/24.2 |
| Loss Uniformity (dB)            | ≤0.4                           | ≤0.6    | ≤0.8      | ≤1.0      | ≤1.5      | ≤2.0      | ≤2.5      |
| PDL (dB)                        | ≤0.1                           | ≤0.1    | ≤0.1      | ≤0.20     | ≤0.25     | ≤0.3      | ≤0.4      |
| Return Loss (dB)                | ≥55                            | ≥55     | ≥55       | ≥55       | ≥55       | ≥55       | ≥55       |
| Directivity (dB) Min            | 55                             | 55      | 55        | 55        | 55        | 55        | 55        |
| Wavelength Dependent Loss (dB)  | ≤0.3                           | ≤0.3    | ≤0.3      | ≤0.3      | ≤0.5      | ≤0.5      | ≤0.5      |
| Fiber Length (m)                | 1.5(±0.1)or customer specified |         |           |           |           |           |           |
| Temperature Stability (-40~85℃) | ≤0.5                           |         |           |           |           |           |           |
| Operating Temperature (℃)       | -40~80                         |         |           |           |           |           |           |
| Storage Temperature (℃)         | -40~85                         |         |           |           |           |           |           |
| Maximum Power Handling (mW)     | 500                            |         |           |           |           |           |           |

1.The above parameters were measured at room temperature, but not including connectors data.

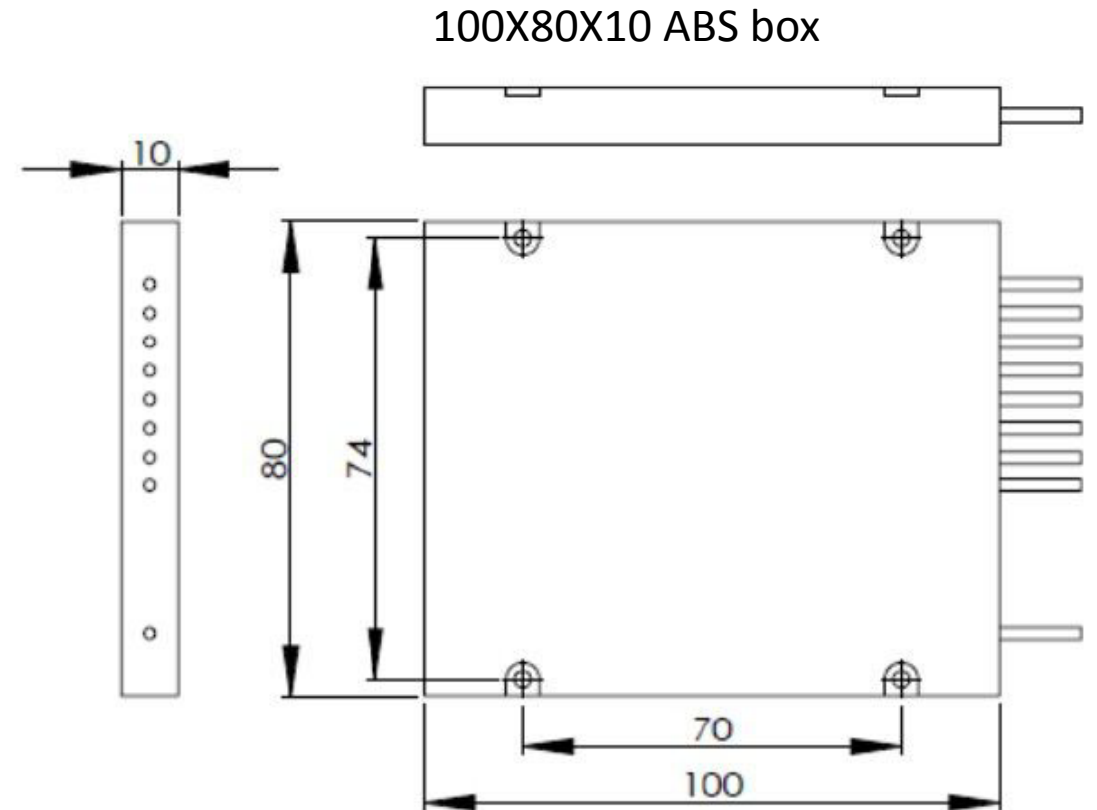
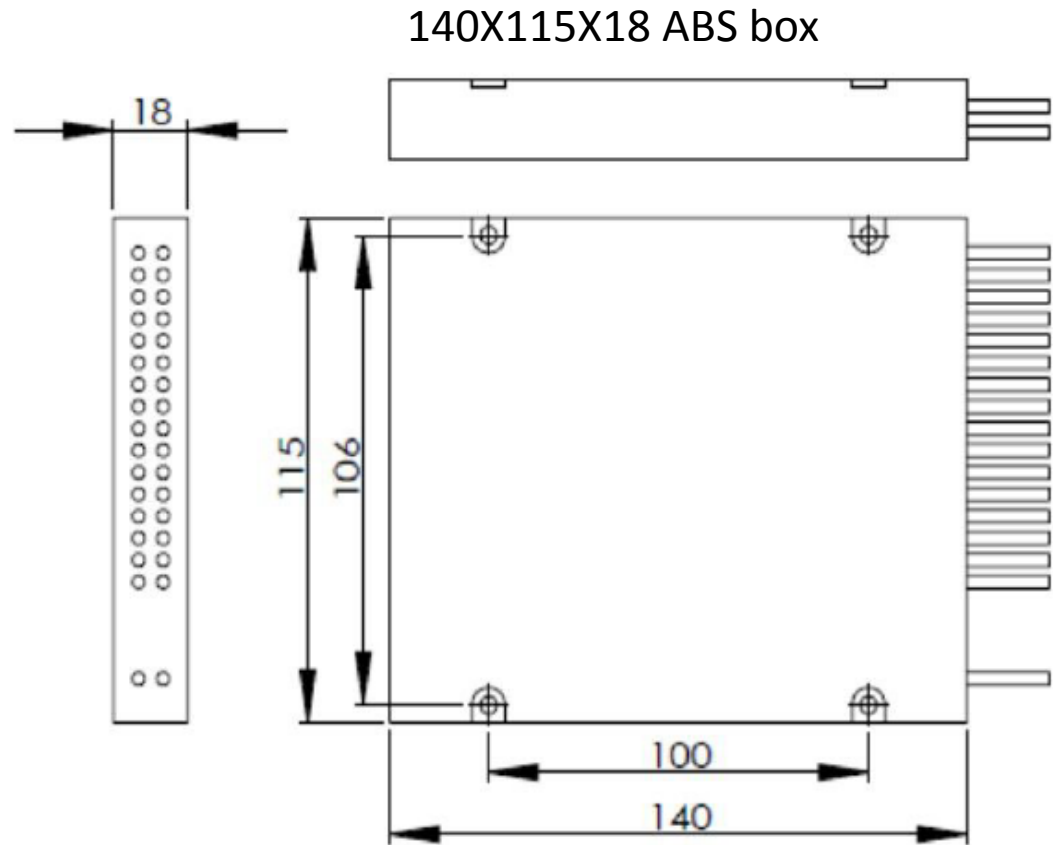
2.Add an additional 0.2dB loss per connector, Return Loss≥55dB(APC), ≥50dB(UPC).

## Performance Specifications: 2×N PLC Splitter

| Parameters                      | 1x2                             | 1x4     | 1x8     | 1x16      | 1x32      | 1x64      | 1x128     |
|---------------------------------|---------------------------------|---------|---------|-----------|-----------|-----------|-----------|
| Operating Wavelength (nm)       | 1260~1650                       |         |         |           |           |           |           |
| Fiber Type                      | G657A1 or customer specified    |         |         |           |           |           |           |
| Insertion Loss (dB) (P/S Grade) | 3.9/4.2                         | 7.3/7.6 | 10.5/11 | 14.4/14.6 | 17.4/17.9 | 21.0/21.5 | 24.5/25.0 |
| Loss Uniformity (dB)            | ≤0.6                            | ≤1.0    | ≤1.2    | ≤1.5      | ≤1.8      | ≤2.2      | ≤2.5      |
| PDL (dB)                        | ≤0.2                            | ≤0.2    | ≤0.2    | ≤0.3      | ≤0.3      | ≤0.3      | ≤0.4      |
| Return Loss (dB)                | ≥55                             | ≥55     | ≥55     | ≥55       | ≥55       | ≥55       | ≥55       |
| Directivity (dB) Min            | 55                              | 55      | 55      | 55        | 55        | 55        | 55        |
| Wavelength Dependent Loss (dB)  | ≤0.3                            | ≤0.4    | ≤0.5    | ≤0.5      | ≤0.5      | ≤0.5      | ≤0.5      |
| Fiber Length (m)                | 1.5(±0.1) or customer specified |         |         |           |           |           |           |
| Temperature Stability (-40~85℃) | ≤0.5                            |         |         |           |           |           |           |
| Operating Temperature (℃)       | -40~80                          |         |         |           |           |           |           |
| Storage Temperature (℃)         | -40~85                          |         |         |           |           |           |           |
| Maximum Power Handling (mW)     | 500                             |         |         |           |           |           |           |

1.The above parameters were measured at room temperature, but not including connectors data.

2.Add an additional 0.2dB loss per connector, Return Loss≥55dB(APC), ≥50dB(UPC).

**Package size and pigtail specifications:**

**Package Box Dimension:**

| Item  | 1x2      | 1x4 | 1x8 | 1x16      | 1x32      | 1x64       | 2x2      | 2x4 | 2x8 | 2x16      | 2x32       |
|-------|----------|-----|-----|-----------|-----------|------------|----------|-----|-----|-----------|------------|
| LxWxH | 60x7x4mm |     |     | 60x12x4mm | 80x20x6mm | 100x40x6mm | 60x7x4mm |     |     | 80x12x4mm | 100x20x6mm |



| Specification (with connectors) | Packing box + sponge | A box of a few |
|---------------------------------|----------------------|----------------|
| 1X2 /2X2                        | 295x205x40mm         | 5              |
| 1X4 /2X4                        |                      | 5              |
| 1X8 /2X8                        |                      | 3              |
| 1X16 /2X16 2                    |                      | 2              |
| 1X32 /2X32                      | 320*280*50mm         | 2              |
| 1X64 /2X64                      | 315*285*70mm         | 1              |

**Order Form:**

| Port       | Input Pigtail Style | Input Connector | Output Pigtail Style | Fiber Length | Output Connector | Package type  |
|------------|---------------------|-----------------|----------------------|--------------|------------------|---------------|
| 0102=1x2   | 0=bare fiber        | 0=none          | 0=bare fiber         | 0=0.5m       | 0=none           | A=Bare        |
| 0104=1x4   | 1=900um Loose tube  | 1=SC/PC         | 1=900um Loose tube   | 1=1m         | 1=SC/PC          | B=Minitype    |
| 0108=1x8   | 2=900um Jacket      | 2=SC/APC        | 2=900um Jacket       | 2=1.5m       | 2=SC/APC         | C=ABS box     |
| 0116=1x16  | 3=2.0mm cable       | 3=FC/PC         | 3=2.0mm cable        | 3=2m         | 3=FC/PC          | D=Insert type |
| 0132=1x32  | 4=3.0mm cable       | 4=FC/APC        | 4=3.0mm cable        | 4=3m         | 4=FC/APC         | E=Pallet type |
| 0164=1x64  |                     | 5=ST            |                      | 5=4m         | 5=ST/PC          | F=19" 1U Rack |
| 1128=1x128 |                     | 6=LC            |                      | S=special    | 6=LC/PC          | S=Special     |
| 0204=2x4   |                     | 7=LC/APC        |                      |              | 7=LC/APC         |               |
| 0208=2x8   |                     | 8=E2000         |                      |              | 8=E2000          |               |
| 0216=2x16  |                     | S=Special       |                      |              | S=Special        |               |
| 0232=2x32  |                     |                 |                      |              |                  |               |
| 0264=2x64  |                     |                 |                      |              |                  |               |
| 2128=2x128 |                     |                 |                      |              |                  |               |