

Planar Lightwave Circuit Splitter

1. Description

The single-mode Planar Lightwave Circuit Splitter (PLC) is developed based on unique quartz glass waveguide and processes technique. It offers a low-cost solution for light distribution and is well known for its compact dimension and high reliability. The PLC has the high performance in terms of low insertion loss, low PDL, high return loss and excellent uniformity over a wide wavelength range from 1260nm to 1650nm and can function in temperature from -40°C to +85°C. Opfuture's PLC is available in standard configurations of 1x4, 1x8, 1x16, 1x32 and 1x64 configurations, as well as customized structures of 2x16, 2x32 and so on.

Opfuture provides whole series of Module products that are tailored for specific applications. All products meet GR-1209-CORE and GR-1221-CORE requirements.

2. Features

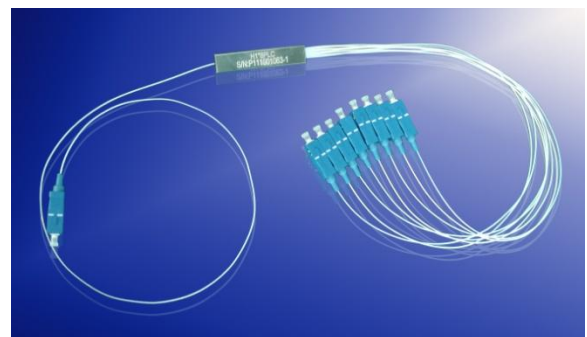
- Low Insertion Loss&Low PDL
- Customized packaging
- Compact Design
- High channel counts
- Wide Operating Wavelength
- Wide Operating Temperature
- High Reliability and Stability

3. Applications

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- Other applications in fiber optic systems

4. Compliance

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



5. Specifications

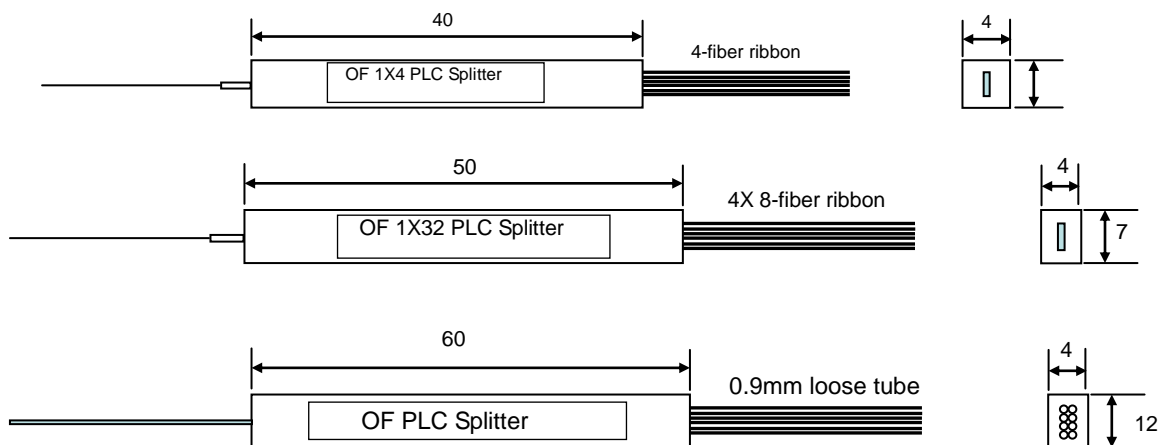
1×N PLC Splitter

Port Configuration	1×2	1×4	2×4	1×8	2×8	1×16	2×16	1×32	2×32	1×64
Operating Wavelength (nm)	1260~1650									
PDL (dB)	≤0.2									
Directivity (dB)	≥55									
Return Loss (dB)	≥55									
Operation Temp. (°C)	-5~+70									
Storage Temp. (°C)	-40~+85									
Fiber Type	G652D or G657A									
Port Configuration	1×2	1×4	2×4	1×8	2×8	1×16	2×16	1×32	2×32	1×64
Insertion Loss (dB)	≤4.0	≤7.20	≤7.5	≤10.5	≤11.2	≤13.6	≤14.6	≤17.0	≤17.5	≤21.5
Loss Uniformity (dB)	≤0.4	≤0.6	≤1.2	≤0.8	≤1.5	≤1.0	≤2.0	≤1.3	≤2.5	≤2.5
Ribbon Fiber Packaging Size (L×W×H) (mm)	40×4 ×4.0	40×4 ×4.0	50×4.5 ×4.0	45×4.5 ×4.0	50×4.5 ×4.0	45×4.5 ×4.0	60×7.0 ×4.0	50×7.0 ×4.0	60×7.0 ×4.0	60×15 ×4.0
0.9mm Loose Tube Packaging Size(L×W×H) (mm)	50×7.0 ×4.0	50×7.0 ×4.0	50×7.0 ×4.0	60×12 ×4.0	60×12 ×4.0	60×12 ×4.0	60×12 ×4.0	80×20 ×6.0	80×20 ×6.0	100×40 ×6.0

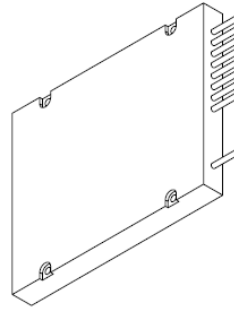
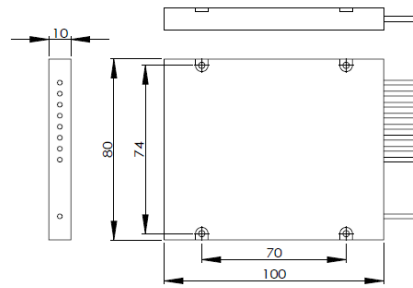
Notes:

1. Specified without connectors.
2. Add an additional 0.2dB loss per connector.

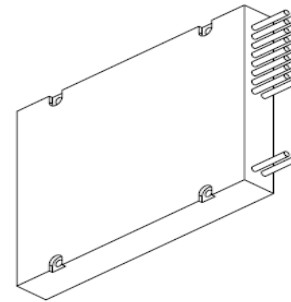
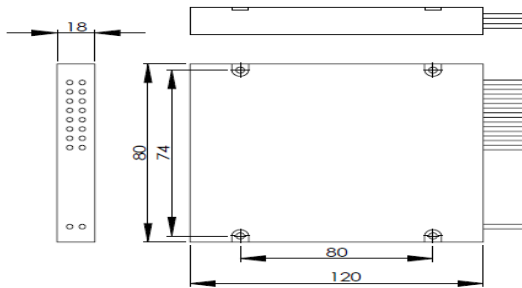
6. Mechanical Dimensions



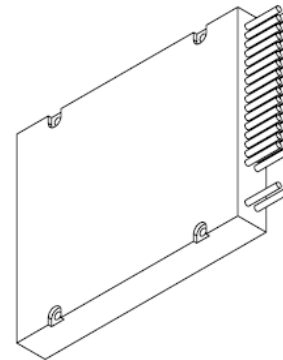
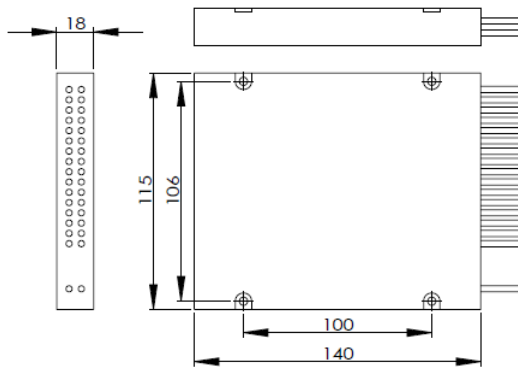
BOX



100X80X10mm



120X80X18mm



140X115X18mm

7. Ordering information

OPS - □ □ □ □ □ □ - □ - □

A B C D E F G H

A	Port Type: 102=1x2 108=1x8 164=1x64 202=2x2 208=2x8 232=2x32
B	Fiber Type: S= G652D G=G657A
C	Fiber Type-IN: B=250um bare fiber L=900um Loose tube 3=Φ 3mm fiber 2=Φ 2mm fiber
D	Fiber Type-OUT: R=250um ribbon fiber L=900um Loose tube 3=Φ 3mm fiber 2=Φ 2mm fiber
E	Package Type: MB= Metal Box PS=100x80x10mm (ABS) PM=120x80x18mm (ABS) PL=140x115x18mm (ABS) LX=LGX Metal Box 19=19" Rack mount
F	Fiber Length: 10=1.0m 12=1.2m 15=1.5m
G	Input Connector: FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC
H	Output Connector: FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC

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