

Blockless PLC Fiber Splitter, Mini Module, Singlemode

PON & Datacom & LAN & LCP & CATV & FTTx Application



Overview

Planar lightwave circuit(PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from Central Office(CO)to multiple premise locations. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity. These are widely used in PON networks to realize optical signal power splitting as a low-cost solution.

Features

- Low Insertion Loss $\leq 16.5\text{dB}$
- Low PDL (Polarization Dependent Loss) $\leq 0.2\text{dB}$
- Compact Design
- Fully Passive Optical Branching Device
- Wide Operating Wavelength: 1260nm to 1650nm
- Wide Operating Temperature: -40°C to 85°C
- Conformed to ISO14001, ISO9001, RoHS, WEEE

Application

- FTTx Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other Applications in Fiber Optic Systems

Technical Specification

Parameters	1×2	1×3	1×4	1×6	1×8	1×9
Operating Wavelength (nm)	1260 ~ 1650					
Fiber Type	G.657A1					
Insertion Loss (dB)	≤4.0	≤6.0	≤7.3	≤9.0	≤10.5	≤16.5
Loss Uniformity (dB)	≤0.4	≤0.45	≤0.6	≤0.55	≤0.8	≤0.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.1	≤0.2	≤0.2
Return Loss (dB)	≥55	≥50	≥55	≥50	≥55	≥50
Directivity (dB)	≥55					
Wavelength Dependent Loss (dB)	≤0.3					
Operating Temperature	-40 to 85°C(-40 to 185°F)					
Storage Temperature	-40 to 85°C(-40 to 185°F)					

Note:

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

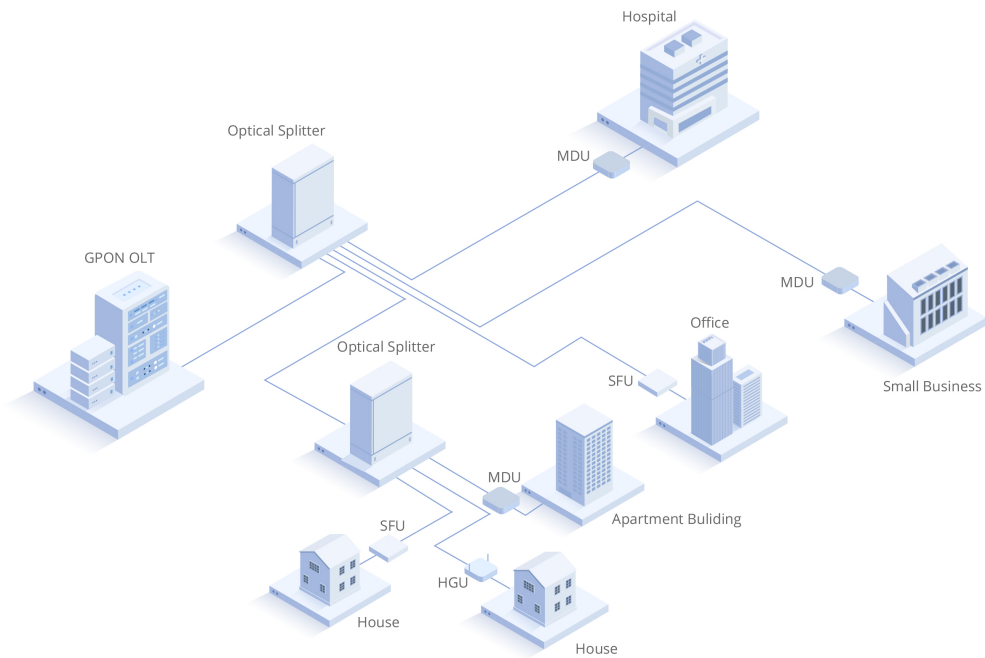
Technical Specification

Parameters	1×12	1×24
Operating Wavelength (nm)	1260 ~ 1650	
Fiber Type	G.657A1	
Insertion Loss (dB)	≤12.5	≤16
Loss Uniformity (dB)	≤1.2	≤2.5
Polarization Dependent Loss (dB)	≤0.4	
Return Loss (dB)	≥55	
Directivity (dB)	≥55	
Wavelength Dependent Loss (dB)	≤0.3	
Operating Temperature	-40 to 85°C(-40 to 185°F)	
Storage Temperature	-40 to 85°C(-40 to 185°F)	

Note:

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

Applications Configuration Diagram





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