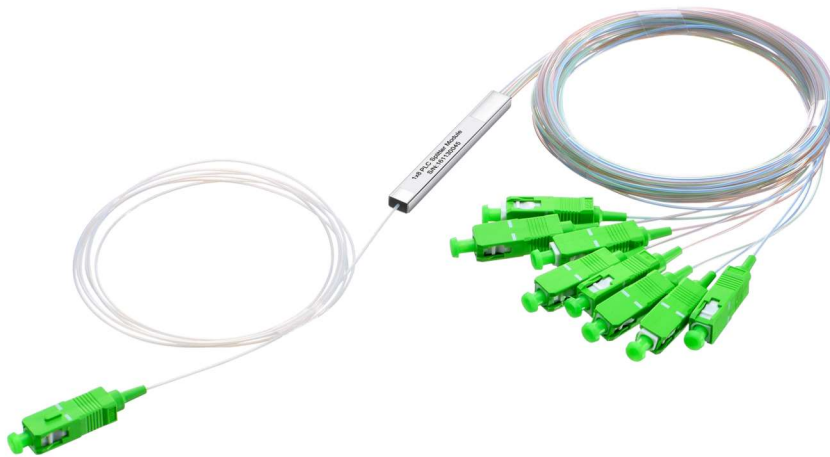


PLC Fiber Splitter, Mini Module, Singlemode

FTTH Network & Data Center & Cloud Computing Infrastructure Solutions



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
- Low PDL (Polarization Dependent Loss)
- Compact Design
- Exceptional Reliability and Stability
- Wide Operating Wavelength: From 1260nm to 1650nm
- Wide Operating Temperature: From -40°C to 85°C
- Conformed to RoHS

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	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)	1260 ~ 1650					
Fiber Type	G.657A1 or customer specified					
Insertion Loss (dB)	≤4.0	≤7.1	≤10.4	≤13.7	≤17.0	≤20.3
Loss Uniformity (dB)	0.5	0.6	0.8	1.0	1.2	1.5
Polarization Dependent Loss (dB)	0.2	0.3	0.3	0.3	0.3	0.4
Return Loss (dB)	≥55	≥55	≥55	≥55	≥55	≥55
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55
Bare Type (Dimension:Hx Wx L)	4x4x40	4x4x40	4x4x40	4x4x50	4x7x50	4x12x60
Steel Tube Type (mm)	4x7x60	4x7x60	4x7x60	4x12x60	6x20x80	6x40x100
Storage and Operating Temperature	-40 ~ 85℃					

Note:

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

Technical Specification

Parameters	2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)	1260 ~ 1650					
Fiber Type	G.657A1 or customer specified					
Insertion Loss (dB)	≤4.0	≤7.6	≤11.0	≤14.5	≤17.5	≤21.2
Loss Uniformity (dB)	0.8	1.5	1.5	2.0	2.5	2.5
Polarization Dependent Loss (dB)	0.2	0.2	0.4	0.4	0.4	0.4
Return Loss (dB)	≥50	≥50	≥50	≥50	≥50	≥50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55
Operating Temperature (°C)	-40 ~ 85					
Storage Temperature (°C)	-40 ~ 85					
Bare Type (Dimension:Hx Wx L)	4x4x40	4x4x40	4x4x40	4x4x50	4x7x50	4x12x60
Steel Tube Type (mm)	4x7x60	4x7x60	4x7x60	4x12x60	6x20x80	4x40x100

Note:

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