

Mini Module PLC Splitter

FTTH 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.

Key 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 -20°C to 70°C

Application

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

Specifications

Port Configuration	1x4	1x8	1x16
Insertion Loss (dB)	7.5	10.8	13.8
Loss Uniformity (dB)	0.6	0.8	0.8
Polarization Dependent Loss(dB)	0.2	0.4	0.4
Wavelength Dependent Loss(dB)	0.3	0.3	0.5
Temperature Dependent Loss (dB)	0.4	0.4	0.5
Return Loss (dB)	APC $\geq$ 55		
Directivity (dB)	$\geq$ 55		
Operating Wavelength (nm)	1260~1650		
Fiber Type	OM3/OM4		
Operating Temperature	-40~+85		
Storage Temperature	-40~+85		

Profile Size

1x2;1x3;1x4;1x6;1x8	7x4x50mm or 7x4x60mm
1x12;1x16	12x4x60mm
1x32	20x6x80mm
1x64	40x6x100mm

Packing

1x2;1x3;1x4;1x6;1x8	200pcs/carton
1x12;1x16	100pcs/carton
1x32	50pcs/carton
1x64	20pcs/carton
packing material	Blister box
Carton Dimension (HxWxD)	430x410x405mm