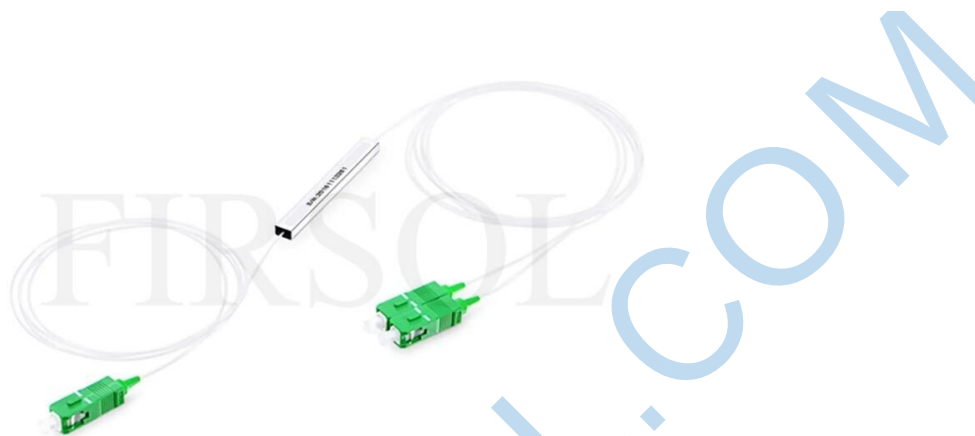


Single Mode Blockless PLC Splitter



Description

A planar lightwave circuit (PLC) splitter is a passive optical component used to distribute or combine optical signals. It is manufactured using silica-based optical waveguide technology and features a compact size, high reliability, a wide operating wavelength range, low insertion loss, and excellent channel-to-channel uniformity.

PLC splitters are widely used in passive optical networks (PONs), fiber-to-the-home (FTTH) systems, telecommunications networks, and other optical communication applications. Firsol provides a full range of 1×N and 2×N PLC splitter products in various package types and configurations to meet different installation and application requirements.

Features

- Low Insertion Loss
- Low PDL
- High Stability and Reliability

Applications

- FTTX System
- PON Network
- CATV Link
- Optical Signal Distribution

Specifications: 1xN Blockless PLC Splitter

Parameter	Unit	Value									
Port	-	1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x64
Operating Wavelength Range	nm	1260-1650									
Fiber Type	-	G.657.A1									
Insertion Loss	dB	≤4.0	≤6.0	≤7.4	≤9.0	≤10.7	≤12.5	≤13.7	≤16.0	≤16.9	≤21.0
Loss Uniformity	dB	≤0.4	≤0.45	≤0.6	≤0.55	≤0.8	≤1.2	≤1.0	≤2.5	≤1.5	≤2.0
PDL	dB	≤0.2	≤0.2	≤0.2	≤0.1	≤0.2	≤0.4	≤0.3	≤0.4	≤0.3	≤0.4
Return Loss	dB	≥50									
Directivity	dB	≥55									
Wavelength Dependent Loss	dB	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤1.0	≤1.0
Temperature Stability	dB	≤0.5									
Max Power Handling	mW	500									
Package Dimensions	mm	60 x 7 x 4					60 x 12 x 4		80 x 20 x 6		100 x 40 x 6
Operating Temperature	°C	-20 to +85									
Storage Temperature	°C	-40 to +85									

Specifications: 2xN Blockless PLC Splitter

Parameter	Unit	Value				
Port	-	2x2	2x4	2x8	2x16	2x32
Operating Wavelength Range	nm	1260-1650				
Fiber Type	-	G.657.A1				
Insertion Loss	dB	≤4.2	≤7.6	≤11.0	≤14.6	≤17.9
Loss Uniformity	dB	≤0.6	≤1.0	≤1.2	≤1.5	≤1.8
PDL	dB	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3
Return Loss	dB	≥50				
Directivity	dB	≥55				
Wavelength Dependent Loss	dB	≤0.5	≤0.5	≤0.5	≤0.5	≤1.0
Temperature Stability	dB	≤0.5				
Max Power Handling	mW	500				
Package Dimensions	mm	60 x 7 x 4			80 x 12 x 4	100 x 20 x 6
Operating Temperature	°C	-20 to +85				
Storage Temperature	°C	-40 to +85				

Ordering Information

 nm	 m	 μ m		
Port	Pigtail Length	Pigtail Diameter	Input Connector	Output Connector
1x2	0.5m	900 μ m	None	None
1x3	1.0m		LC/UPC	LC/UPC
1x4	1.5m		LC/APC	LC/APC
1x6	2.0m		SC/UPC	SC/UPC
1x8			SC/APC	SC/APC
1x12			FC/UPC	FC/UPC
1x16			FC/APC	FC/APC
1x24			ST/UPC	ST/UPC
1x32			ST/APC	ST/APC
1x64				
2x2				
2x4				
2x8				
2x16				
2x32				