Planar Lightwave Circuit Splitter (1×N) (PLCS Series)

Rev 11B

Description

The Planar Lightwave Circuit Splitter is based on unique silica glass waveguide process. It features excellent optical performance with low insertion loss, low PDL, high return loss over a wide wavelength range from 1260 nm to 1620 nm. It is used in FTTx Systems, LAN, WAN and Metro Networks, Analog Passive Optical Networks, CATV Networks and other applications in fiber optics systems.

Key Features

- High Return Loss
- Low Insertion Loss
- Low Polarization Dependent Loss

Applications

- Metro Networks
- Long Haul Networks

Specifications

Parameter	Unit	Value			
Configuration	-	1 × 4	1 × 8	1 x 16	1 x 32
Operating Wavelength	nm	1260 - 1650			
Max. Insertion Loss	dB	7.5	10.5	13.5	16.5
Max. Uniformity	dB	0.5	0.6	1.2	1.3
Max. PDL	dB	0.2	0.2	0.2	0.3
Min. Return Loss	dB	50			
Min. Directivity	dB	55			
Fiber Type	-	SMF-28 Fiber			
Operating Temperature	℃	- 40 to + 85			
Storage Temperature	℃	- 40 to + 85			
Package Dimensions (L x W x H) for Bare Fiber	mm	40 × 4 × 4	40 × 4 × 4	50 × 7 × 4	50 × 7 × 4
Package Dimensions (L x W x H) for 900 μm Loose Tube	mm	60 × 7 × 4	60 × 7 × 4	60 × 12 × 4	80 × 20 × 6
Package Dimensions (L x W x H) for 2 mm & 3 mm Cable	mm	100 × 80 × 10	100 × 80 × 10	120 × 80 × 18	141 × 115 × 18

[1]Above specifications are for device without connector.

[2]For device with connectors, IL will be 0.3 dB higher, RL will be 5 dB lower.

Ordering Information

PLCS-①①①①-②②-③-④④-⑤-⑥

①①①①: Configuration

0104 - 1 × 4
0108 - 1 × 8
0116 - 1 × 16
0132 - 1 × 32

②②: Wavelength

2665 - 1260 nm - 1650 nm
SS - Specify

③: Package

1 - Rectangular Shape
S - Specify

④④: Connector Type (Input-Output)

1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
5 - LC/UPC
6 - ST/UPC
N - None
S - Specify

⑤: Fiber Type

B - 250 μm Bare Fiber
L - 900 μm Loose Tube
R - Ribbon Fiber
2 - 2 mm Cable
3 - 3 mm Cable

⑥: Fiber Length

1 - 1.0 m
S - Specify