

PLC Optial Fiber Splitter with Rack Mount

1、 Cable Drawing



2、 Description

(PLC splitter) Planar lightwave circuit splitter, a type of optical power management device that is fabricated using silica optical waveguide technology. rack mount splitter is designed to meet the requirements of the 19 inch standard communication cabinet (optical distribution frame) and it can be installed in standard cabinets. standard structure design and compact size, it can be widely used in many different application and provide different adapter interface according to customer requirements.

3、 Features

- Low insertion loss and low PDL
- Exceptional reliability and stability
- Highest Splitter Densities to Maximize Rack Space
- Flexible and Scalable Platforms
- Rugged BUT Lightweight Packaging for Solid Protection and Durability
- Full Bend Radius Protection throughout Modules
- Many Input/Output Options for Easy Integration

4、 Application

- CATV, LAN, WAN network
- FTTX Systems
- Telecommunication network
- EPON/GPON
- DWDM and CWDM Systems

5. Specification

Fiber Parameters

1×N PLC Splitter							
Parameters	1×2	1×4	1×8	1×16	1×32	1×64	1×128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or customer specified						
Insertion Loss (dB) (P/S Grade)	≤3.8/4.0	≤7.1/7.3	≤10.2/10.5	≤13.5/13.7	≤16.5/16.9	≤20.5/21.0	≤23.8/24.2
Loss Uniformity (dB)	≤0.4	≤0.6	≤0.8	≤1.2	≤1.5	≤2.0	≤2.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.25	≤0.3	≤0.35	≤0.4
Return Loss(dB) (P/S Grade)	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.3	≤0.3	≤0.3	≤0.5	≤0.5	≤0.5	≤0.5
Temperature Stability (-40~85°C) (dB)	≤0.4	≤0.4	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5
Operating Temperature(°C)	-40~+85						
Storage Temperature(°C)	-40~+85						

2×N PLC Splitter							
Parameters	2×2	2×4	2×8	2×16	2×32	2×64	2×128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or Customer specified						
Insertion Loss (dB) P/S Grade)	≤3.9/4/2	≤7.3/7.6	≤10.5/11	≤14.4/14.6	≤17.4/17.9	≤21.0/21.5	≤24.5/25.0
Loss Uniformity (dB)	≤0.6	≤1.0	≤1.2	≤1.5	≤1.8	≤2.2	≤2.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.3	≤0.4
Return Loss(dB)(P/S Grade)	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50	≥55/50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.3	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5

Temperature Stability (-40 ~ 85 °C)(dB)	≤0.5
Operating Temperature (°C)	-40 ~ 85
Storage Temperature (°C)	-40 ~ 85
Max. Power(mW)	500

Notes:

1. All values specified are without connectors.
2. IL will increase 0.2dB when add one connector, Return Loss ≥55dB(APC), ≥50dB(UPC)
3. Customized service is available.

Rack Pannel Parameters

Item	Unit	Parameters
Dimension (L*W*D)	mm	L483 * W444 * D220
Material	/	Aluminum or Steel
Adaptor Type	/	SC LC FC or Customer specified
Colour	/	Black or White
Fiber Diameter	mm	0.9, 2.0 or 3.0
Capacity	/	Max. 1: 32 or 2: 32

