

Bare PLC splitter device



Fanout PLC splitter Device



Module PLC splitter type



LGX PLC splitter Type

## General Description

PDR offers different types of high-quality splitters. These products are designed for long-term reliability, superior performance, and a wide range of usage in fiber optics including optical transmission, long haul, subscriber loop, fiber to the home, telecommunications, CATV, test equipment, optical fiber sensors, data communications and wide-area network.

Our optical splitters are designed for consistent performance, low optical Insertion loss, low polarization Dependent Loss, high reliability and stability , superior environmental and mechanical characteristics, and fast installation. They also enable more effective monitoring and management of fiber optical networks.

The products we offer are:

PLC Splitter:1x4, 1x8,1x16, 1x32, 1x64, and 2x4,2x8,2x16,2x32

Our PLC splitters are tested based on the strictest standards of the industry, and we guarantee quality, turnaround and competitive pricing.

## Features

- Low IL and PDL
- High reliability
- High channel counts
- Wide wavelength range
- Large operating temperature range
- Excellent Environmental & Mechanical Stability

## Applications

- FTTX (FTTP, FTTH, FTTN, FTTC)
- Local Area Networks (LAN)
- Test Equipment
- CATV
- Analog/Digital Passive Optical Networks (PON)

## Specifications

- Telcordia GR-1209
- Telcordia GR-1221

## 1×N PLC Splitter Specifications (Measured at room temperature and excludes connector loss)

Port Configuration		1x2	1x4	1x8	1x16	1x32	1x64
Fiber Type		SMF-28e or customer specified					
Operating Wavelength (nm)		1260 to 1650					
Insertion Loss (dB)		4.0	7.4	10.5	13.6	16.9	21.0
Loss Uniformity (dB)	Max	0.5	0.7	1.0	1.4	1.8	2.0
Return Loss (dB)	Min	55					
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)	Min	55					
Wavelength Dependent Loss (dB)	Max	0.3	0.3	0.3	0.8	0.5	0.8
Temperature Dependent Loss (dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Operating Temp. (°C)		-40 to +85					
Storage Temp. (°C)		-40 to +85					
Operating Humidity %RH		≤93					
Storage Humidity %RH		≤93					
Packaging Size (mm)	Fan-Out	60x7x4	60x7x4	60x7x4	60x12x4	80x20x6	100x40x6
Packaging Size (mm)	Module	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	140x115x18
Packaging Size (mm)	Cassette	130x100x25	130x100x25	130x100x25	130x100x50	130x100x100	130x100x206

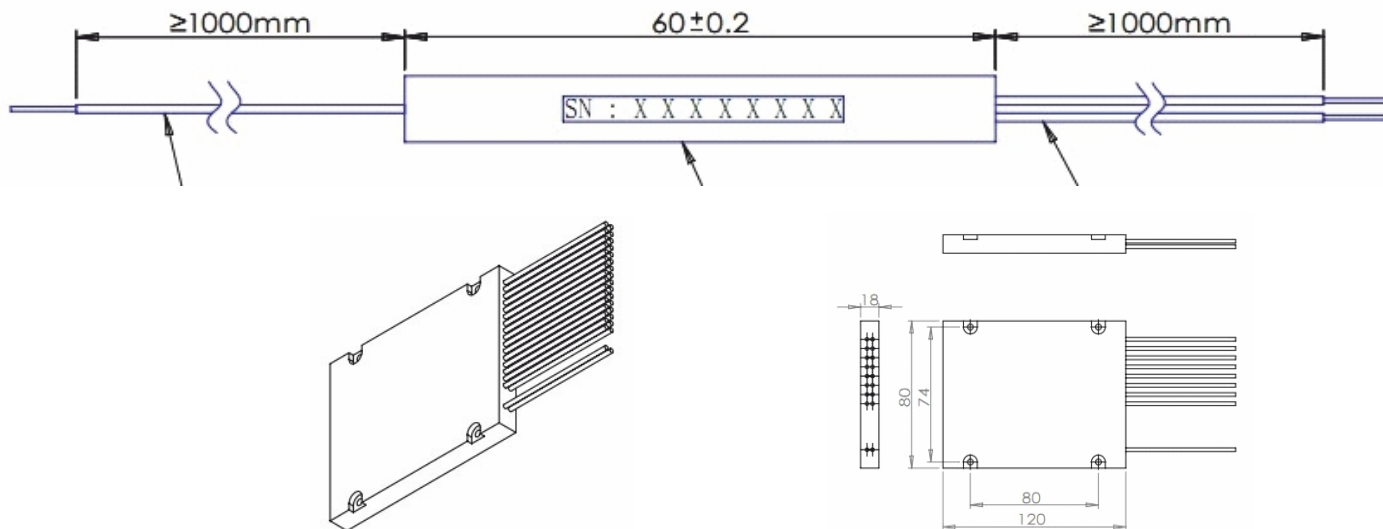
Remark: The above IL is for the PLC Splitter without connectors, for the PLC Splitter with connectors, the above IL should add 0.2dB each, for LGX PLC splitters with adapters, the IL should add 0.2db

## 2×N PLC Splitter Specifications (Measured at room temperature and excludes connector loss)

Port Configuration		2x2	2x4	2x8	2x16	2x32	2x64
Fiber Type		SMF-28e or customer specified					
Operating Wavelength (nm)		1260 to 1650					
Insertion Loss (dB)	Max	4.4	7.8	11.2	14.6	17.9	21.5
Loss Uniformity (dB)	Max	1.0	1.4	1.5	2.0	2.5	2.5
Return Loss (dB)	Min	50					
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.4	0.4	0.4	0.5
Directivity (dB)	Min	55					
Wavelength Dependent Loss (dB)	Max	0.8	0.8	0.8	0.8	0.8	1.0
Temperature Dependent Loss (dB)	Max		0.5	0.5	0.8	0.8	1.0
Operating Temp. (°C)		-40 to +85					
Storage Temp. (°C)		-40 to +85					
Operating Humidity %RH		≤93					
Storage Humidity %RH		≤93					
Packaging Size (mm)	Fan-Out	60x7x4	60x7x4	80x12x4	80x12x4	80x20x6	100x40x6

Remark: The above IL is for the PLC Splitter without connectors, for the PLC Splitter with connectors, the above IL should add 0.2dB each, for LGX PLC splitters with adapters, the IL should add 0.2db

## Dimension Diagrams



## Ordering Information

PLC	Wavelength	Port	Fiber Type	Input Pigtail	Fiber Length	In/Out Connector
	35=1310/1550nm 13=1310nm 15=1550nm	0102=1x2 0104=1x4 0108=1x8 0116=1x16 0132=1x32 0164=1x64 0216=2x16 0232=2x32 0264=2x64	1=G652D 2=G657A C=Customize	1=bare fiber 2=900µm jacket fiber	1=1m 2=1.2m 3=1.5m C=Customize	0=Adapter 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC C=Customize

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