

## 1U Rack Mount Splitter

### General Description:

- ◆ Fiber Optic splitter is also called optical splitter, is one of the most important passive devices in optical fiber link, is with multiple inputs and multiple output end of the optical fiber connected devices.
- ◆ The fiber optic splitter by the light splitting principle can be divided into the fused biconical taper (FBT) and planar waveguide type (PLC).

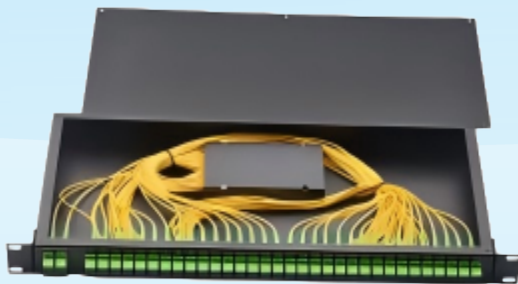
### Features:

- ◆ Low Insertion Loss, Low PDL, High Return Loss;
- ◆ Uniform Power Splitter
- ◆ Compact Design
- ◆ Wide Operating Wavelength
- ◆ Wide Operating Temperature
- ◆ Qualified Under Telcordia GR-1221 and GR-1209

### Application:

- ◆ Optical Fiber Communication;
- ◆ CATV;
- ◆ Optical Transmission Backbone;
- ◆ Optical Fiber Test and Measurement Systems;

## Detailed Pictures:



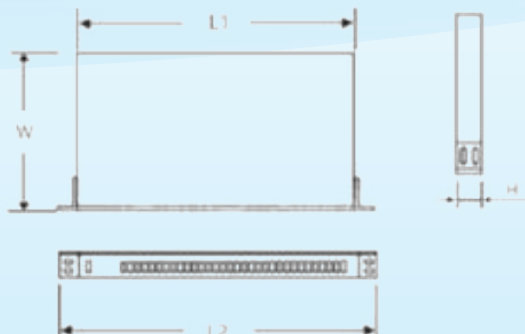
### Specifications and Optical indicator (1xN):

Specification	1x2	1x4	1x8	1x16	1x32	1x64	1x128
Fiber Type	G.657A						
Operation Wave	1260nm-1650nm						
Insertion Loss (db)	≤4.1	≤7.4	≤10.5	≤13.8	≤17.1	≤20.4	≤23.7
Uniformity (db)	≤0.8	≤0.8	≤0.8	≤1.0	≤1.5	≤2.0	≤2.0
Uniformity(db)	≤0.8	≤0.8	≤0.8	≤1.0	≤1.0	≤1.0	≤1.2
Return Loss(db)	≥50	≥50	≥50	≥50	≥50	≥50	≥50
Directivity(db)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
PDL (db):	≤0.3						
Storage Temperature (℃)	-40~+85						
Operating Temperature (℃)	-40~+85						

### Specifications and Optical indicator (2xN):

Specification	2x2	2x4	2x8	2x16	2x32	2x64	1x128
Fiber Type	G.657A						
Operation Wave	1260nm-1650nm						
Insertion Loss (db)	≤4.1	≤7.4	≤10.5	≤13.8	≤17.1	≤20.4	≤23.7
Uniformity (db)	≤0.8	≤0.8	≤0.8	≤1.0	≤1.5	≤2.0	≤2.0
Uniformity(db)	≤0.8	≤0.8	≤0.8	≤1.0	≤1.0	≤1.0	≤1.2
Return Loss(db)	≥50	≥50	≥50	≥50	≥50	≥50	≥50
Directivity(db)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
PDL (db):	≤0.30						
Storage Temperature (℃)	-40~+85						
Operating Temperature (℃)	-40~+85						

## 4. Rack mount PLC Splitter



Rack Mount PLC Splitter								
TYPE		1/2x2	1/2x4	1/2x8	1/2x16	1/2x32	1/2x64	
Rack mount	Body Material	Cold Rolled Sheet						
	Dimension(L1xL2xWxH/mm)	431x482x230x44				431x482x200x88		
	Input fiber type	900um/2000um loose Hytrel tube						
	Output fiber type	900um/2000um loose Hytrel tube						
	Input Length	1~1.5M (+50mm / -0mm) or Customized						
	Output Length	1~1.5M (+50mm / -0mm) or Customized						
	Connector (Input)	sc/upc, sc/apc, lc/upc, lc/apc, fc/upc, fc/apc						
	Connector (Output)	sc/upc, sc/apc, lc/upc, lc/apc, fc/upc, fc/apc						

### Features:

- 1) Low insertion loss, Low PDL
- 2) Chip: Wooriro chip from Korea
- 3) High isolation safety performance
- 4) Good channel-to-channel uniformity
- 5) 1U, 2U, 4U... different types optional, etc

### Application:



## 1xN & 2xN PLC SPLITTER

### Description :

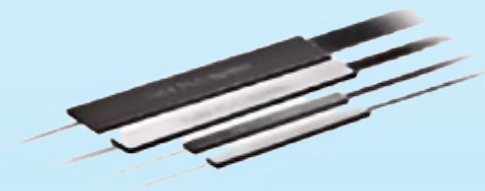
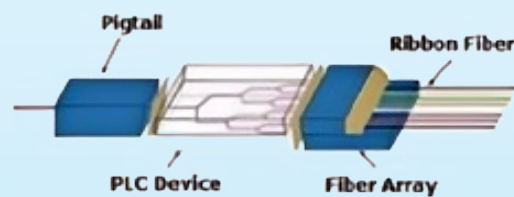
The high performance 1xN or 2xN, single mode, passive power splitter based on PLC technology. The device uniformly splits the optical signals present at the input ports to multiple output ports. Power splitters can also be used in the reverse direction in order to combine multiple optical signals present at the output ports into the input ports.

### Applications:

- Fiber optic equipment & systems
- CATV networks
- Data communications
- Passive Optical Networks

### Compliance:

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS



### Optical Specification:

1xN PLC Splitter							
Type		1x2	1x4	1x8	1x16	1x32	1x64
Fiber Type		G.657A/G.652D					
Operating Wavelength(nm)		1260 to 1650 nm					
Insertion Loss(dB)	Max(with connector)	4.2	7.5	10.6	14.0	17.4	20.5
Uniformity Loss(dB)	Max	0.6	0.6	0.8	1.2	1.5	1.8
Polarisation Dependent Loss(dB)	Max	0.2	0.2	0.2	0.3	0.3	0.5
Return Loss (dB)		UPC≥50 APC≥60					
Operating Temperature (°C)		-40 to +85					

2xN PLC Splitter							
Type		2x2	2x4	2x8	2x16	2x32	2x64
Fiber Type		G657A/G652D					
Operating Wavelength(nm)		1260 to 1650 nm					
Insertion Loss(dB)	Max(with connector)	4.4	7.8	11.0	14.30	17.2	20.5
Uniformity Loss(dB)	Max	0.4	0.8	0.8	1.0	1.5	1.8
Polarisation Dependent Loss(dB)	Max	0.2	0.2	0.2	0.3	0.3	0.4
Return Loss (dB)		UPC≥50 APC≥60					
Operating Temperature (°C)		-40 to +85					