

## PLC Splitter



### Descriptions

Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. Gezhi Photonics provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE-2001 and GR-1221-CORE-1999 requirements.

### Features

- ◆ Low Insertion loss
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good channel-to-channel uniformity
- ◆ Wide Operating Wavelength: From 1260nm to 1650nm
- ◆ Wide Operating Temperature: From -40°C to 85°C
- ◆ High Reliability and Stability

### Applications

- ◆ FTTX Systems
- ◆ PON Networks
- ◆ CATV Links
- ◆ Optical Signal Distribution

### Compliance

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

### Technical Parameter



Parameter		Specification											
Operating Wavelength (nm)		1260 ~ 1650											
Type		1x2	1x4	1x8	1x16	1x32	1x64	2X2	2x4	2x8	2x16	2x32	2x64
Insertion Loss (dB)	Typical	3.6	6.8	10.0	13.0	16.0	19.5	4.0	7.0	10.5	13.5	16.5	20.5
	Max	3.8	7.1	10.3	13.5	16.5	20.5	4.1	7.4	10.8	14.3	17.3	20.7
Uniformity (dB)	Typical	0.4	0.5	0.5	1.0	1.0	2.5	0.6	0.8	1.0	1.5	2.0	2.0
	Max	0.6	0.6	0.8	1.2	1.5	2.5	0.8	0.8	1.5	2.0	2.5	2.5
PDL(dB)Max	Typical	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
	Max	0.15	0.15	0.25	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.4
Wavelength department loss(dB)	Typical	0.10	0.10	0.10	0.30	0.40	0.70	0.10	0.10	0.10	0.30	0.40	0.70
	Max	0.20	0.30	0.40	0.60	0.80	1.00	0.20	0.30	0.40	0.60	0.80	1.00
Temperature department loss	Typical	0.30	0.30	0.30	0.40	0.40	0.40	0.30	0.30	0.30	0.40	0.40	0.40
	Max	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Directivity (dB) Min		55											
Return Loss (dB) Min		55(50)											
Operating Temperature (°C)		-40~ +85											
Storage Temperature (°C)		-40 ~ +85											
Fiber length		1m or Customized											
Fiber Type		G652D, G657A or other											
Connector Type		Customized											
PLC Splitter Bare Fiber(mm)		4x4x40	4x4x40	4x4x40	4x7x50	4x7x50	4x12x60	4x4x55	4x4x55	4x4x55	4x7x60	4x7x60	4x7x60
PLC Splitter Blockless		4x4x40	4x7x60	4x7x60	4x12x60	6x20x80	6x40x100	4x4x55	4x12x60	4x12x60	4x12x80	6x20x80	6x20x80
PLC Splitter Module(mm)		100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	141x115x18	100x80x0	100x80x0	100x80x0	120x80x8	120x80x8	141x115x18
PLC-splitter-rack-mountable(mm)		19'1U 2U Rack-Mount Box, LGX Box, ODF Box											



**Ordering information**

GP	XXX	XX	XX	XX	XX	XX
	Port Configition	Module type	Cable type	Fiber length	Input connector	Output connector
G=Gezhi P=PLC	102=1x2 104=1x4 108=1x8 116=1x16 132=1x32 164=1x64 204=2x4 208=2x8 216=2x16 232=2x32 264=2x64	BF= Bare Fiber BL=Blockless MO=Module LG=LGX Box RM=Rack Mount CB=Cassette Box XX=Customized	00=none 09=900um Loose tube 20=2.0mm 30=3.0mm	05=0.5m 10=1.0m 15=1.5m 30=3.0m 40=4.0m 50=5.0m .....	0=none 1=LC/UPC 2=LC/APC 3=SC/UPC 4=SC/APC 5=FC/UPC 6=FC/APC 7=LC/APC X=Customized	0=none 1=LC/UPC 2=LC/APC 3=SC/UPC 4=SC/APC 5=FC/UPC 6=FC/APC 7=LC/APC X=Customized