

# PLANAR LIGHTWAVE CIRCUIT SPLITTER MODULES (LGX AND RACK-MOUNT CHASSIS ASSEMBLY)

## PLCS2 Series

### Product Description

Optical Power Splitter is a component that splits the optical power from one optical route into a few different routes according to a certain allocation ratio. Oplink's Planar Lightwave Circuit Splitter Product family provides PLC splitters from 1x4 to 1x64 and 2x4 to 2x64 with high performance and high reliability. Various packaging choices are available based on Oplink's professional mechanical design ability.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module.

### Features

- ◆ Wide Operating Wavelength Range (1310/1490/1550/1620nm)
- ◆ Ultra-Low Insertion Loss
- ◆ Low PDL
- ◆ Excellent IL Uniformity
- ◆ Compact Size
- ◆ Telcordia Qualified
- ◆ RoHS Compliant

### Applications

- ◆ FTTX Solutions
- ◆ Passive Optical Network (PON)

### Options

- ◆ High Performance Fan-out Available
- ◆ Module Cassette Available
- ◆ LGX Packaging Available
- ◆ 19/23" Rack-mount Chassis Available
- ◆ Wall-mount Cabinet Available
- ◆ Outdoor Enclosure Available

### Performance Specification

Parameter		1x4	2x4	1x8	2x8	1x16	2x16	1x32	2x32	1x64	2x64	
Operation Wavelength		1260~1360 / 1480~1620										
Insertion Loss (Typ)	S	<7.1	<7.3	<10.3	<10.4	<13.5	<14.0	<16.8	<17.3	19.6	20.3	dB
Insertion Loss (Max)		<7.5	<7.7	<10.8	<11.0	<14.0	<14.5	<17.5	<18.0	20.5	21.0	dB
Insertion Loss (Typ)	P	<6.8	<7.1	<10.0	<10.2	<13.2	<13.6	<16.5	<17.0	19.2	19.8	dB
Insertion Loss (Max)		<7.2	<7.5	<10.3	<10.5	<13.7	<14.2	<17.0	<17.5	20	20.5	dB
Uniformity (Max)		<0.7	<1.0	<1.0	<1.2	<1.5	<2.0	<2.0	<2.5	<2.5	<3.0	dB
Polarization Dependent Loss (Max)		<0.3	<0.3	<0.3	<0.3	<0.3	<0.4	<0.3	<0.4	<0.3	<0.4	dB
Directivity (Min)		55										dB
Return Loss (Min)		≥45dB for PLC splitters with PC&SPC connector type ≥50dB for PLC splitters with APC connector type										dB
Optical Input Power		300										mW
Operating Temperature		-5 to +70										°C
Storage Temperature		-40 to +85										°C
Fiber Type		Corning SMF-28 or equivalent										
Packaging Dimension		LGX or Rack-mount Chassis, refer ordering information for packaging choices										

#### Notes:

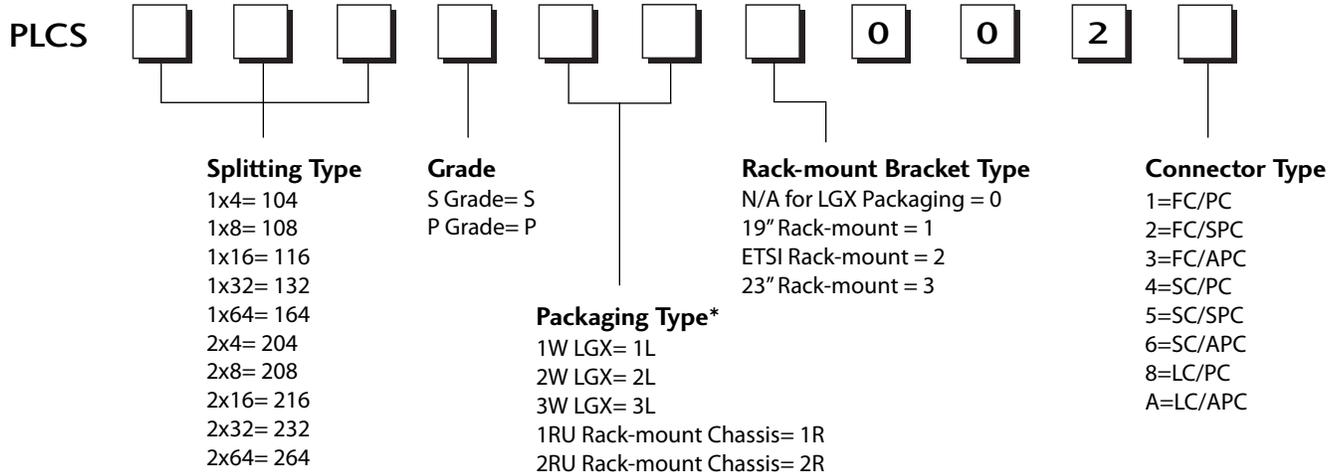
[1] All the parameters are tested at 1310nm&1550nm and room temperature. The IL doesn't include TDL, WDL or the connector loss.

[2] Connector IL is 0.2dB/pair for PC&SPC type and 0.4dB/pair for APC type.



## Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



\* Refer the following table for packaging choices.

Splitter Type	Packaging Choices		
	SC Connector Type	LC Connector Type	FC Connector Type
<b>1x4</b>	1W LGX, 1RU Rack-mount Chassis	1W LGX, 1RU Rack-mount Chassis	1W LGX, 1RU Rack-mount Chassis
<b>2x4</b>	1W LGX, 1RU Rack-mount Chassis	1W LGX, 1RU Rack-mount Chassis	1W LGX, 1RU Rack-mount Chassis
<b>1x8</b>	2W LGX, 1RU Rack-mount Chassis	1W LGX, 1RU Rack-mount Chassis	2W LGX, 1RU Rack-mount Chassis
<b>2x8</b>	2W LGX, 1RU Rack-mount Chassis	1W LGX, 1RU Rack-mount Chassis	2W LGX, 1RU Rack-mount Chassis
<b>1x16</b>	3W LGX, 1RU Rack-mount Chassis	2W LGX, 1RU Rack-mount Chassis	3W LGX, 1RU Rack-mount Chassis
<b>2x16</b>	3W LGX, 1RU Rack-mount Chassis	2W LGX, 1RU Rack-mount Chassis	3W LGX, 1RU Rack-mount Chassis
<b>1x32</b>	1RU Rack-mount Chassis	1RU Rack-mount Chassis	1RU Rack-mount Chassis
<b>2x32</b>	1RU Rack-mount Chassis	1RU Rack-mount Chassis	1RU Rack-mount Chassis
<b>1x64</b>	1RU Rack-mount Chassis	1RU Rack-mount Chassis	2RU Rack-mount Chassis
<b>2x64</b>	1RU Rack-mount Chassis	1RU Rack-mount Chassis	2RU Rack-mount Chassis

In order to meet different rack-mount applications, additional rack-mount brackets are also available. Please refer the following table for ordering information.

Oplink Part Number	Product Description
<b>OMSSBR19IEC0000</b>	1RU 19" Rack-mount Brackets (one pair)
<b>OMSSBRETSI00000</b>	1RU ETSI Rack-mount Brackets (one pair)
<b>OMSSBR230000000</b>	1RU 23" Rack-mount Brackets (one pair)