PLC Splitter Datasheet

Planar Lightwave Circuit is a more recent technology. PLC splitters offer a better solution for applications where larger split configurations are required. To achieve this, waveguides are fabricated using lithography onto a silica glass substrate, which allows for routing specific percentages of light. As a result, PLC splitters offer very accurate and even splits with minimal loss in an efficient package.

With the rapid growth of FTTX worldwide, the requirement for larger split configurations (1x32, 1x64, etc) in these networks has also grown in order to serve mass subscribers. Due to the performance benefits and overall low cost to deploy, PLC splitters are now the ideal solutions for these types of applications.

Features:
Wavelength Insensi ve
Low Loss
Low Polariza on Dependence
Environmentally Stable
Excellent Uniformity
GR-1209-CORE

Applications:
EPON/GPON
FTTX
Passive Op cal Networks
CATV, LAN, WAN
Test Instrument

| Type		1x2	1×4	1×8	1×16	1×32	1x64
OperatingWavelength(nm)		1260~1650					
Insertionloss(dB)	Typical	4.0	7.2	10.3	13.8	16.8	20.2
	Maximum	4.2	7.4	10.5	14.0	17.0	20.4
Uniformity(dB)	Maximum	0.8	0.8	0.8	1.0	1.2	2.0
Polarization DependentLoss (dB)	Maximum	0.1	0.1	0.1	0.2	0.2	0.2
Returnloss(dB)	Minimum	>=50					
Directivity(dB)	Minimum	>=55					
Operatingtemperature(°C)		-40to85					
Storagetemperature(°C)		-40to85					
Opticalfibertype		SMF-28OrG657A					
Opticalfiberlength(m)		1.5orcustom					

Package type for splitter part:

1. Fanout PLC Splitter

PLC Part Package: Stainless Steel Tube.

Dimensions as below: (Unit: mm)

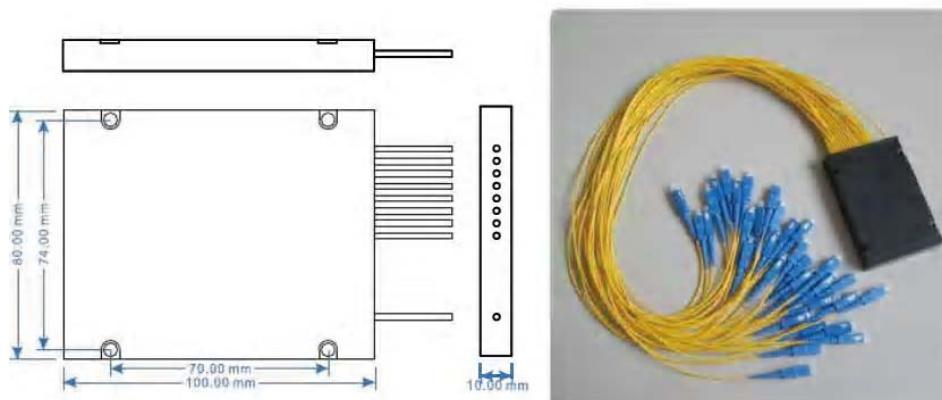| 1x2	1x4	1x8	1x16	1x32	1x64
40x4x4			50x4x4	55x7x4	60x12x4
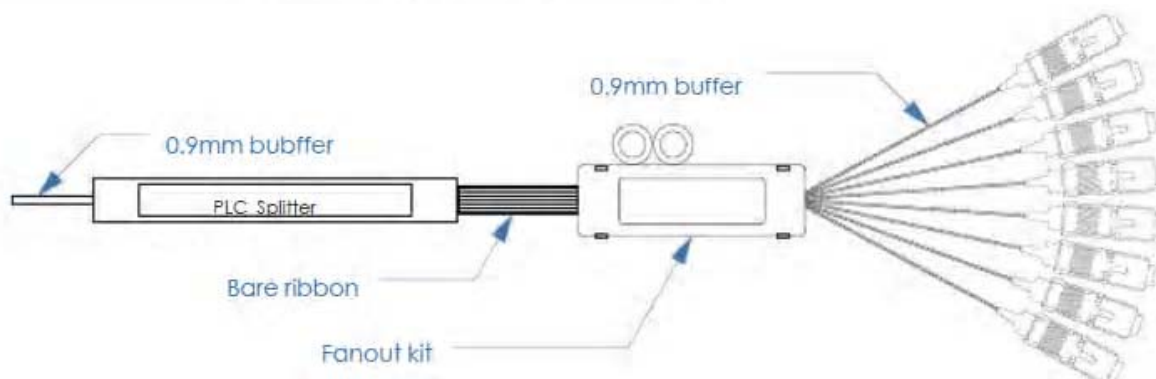
2. Mini-Module PLC Splitter (Only for 0.9mm fiber direct output without fanout kit)
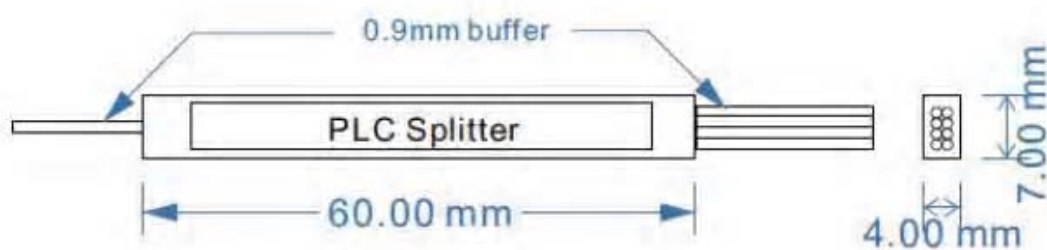
3. Module PLC Splitter (Or ABS cassette, for patch panel use)

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PLC Part Package: Module
Dimensions as below: (Unit: mm)

1x2	1x4	1x8	1x16	1x32	1x64
100×80×10			120×80×18	140x115x18	

4. Rack Mount PLC Splitter

PLC Part Package: Rack Mount
Dimensions as below: (Unit: mm)

1x4	1x8	1x16	1x32	1x64
430x250x43				430x250x86

5. LGX PLC Splitter (For LGX chassis use)

PLC Part Package: LGX Box
Dimensions as below: (Unit: mm)

1x2	1x4	1x8	1x16	1x32
130×100×25			130×100×50	130×100×100

LGX Chassis for LGX modules

Length: 19 inch

Height: 3.5U

Slot: 16pcs

This LGX chassis is for 19inch rack mount use.

Totally it has 16 slots and can hold 16pcs 1x2 or 16pcs 1x4 or 16pcs 1x8 or 8pcs 1x16 or 4pcs 1x32 LGX modules.

According to requirements, different LGX modules can be inserted into the chassis.

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