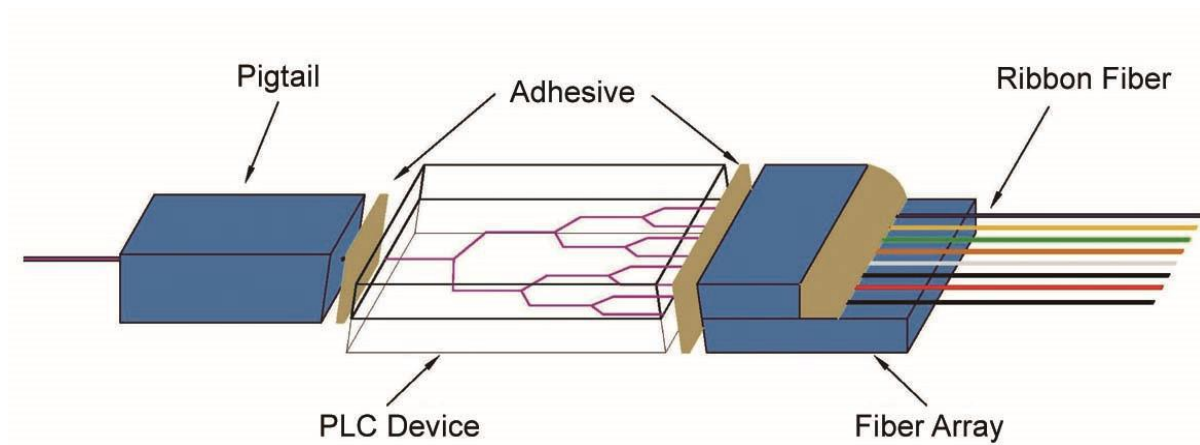


PLC Splitter



Introduction

PLC-Planar Light wave Circuit Splitter is a kind of power splitter based on the integrated quartz baseplate. Single Mode PLC $1 \times N$ and $2 \times N$ Splitter divide uniformly optical signals from one or two inputs to multiple outputs, and splitter can be operated in reverse direction to combine multiple signals into fiber or two fibers.



Feature

- Broadband Operation Wavelength
- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- High Reliability and Stability
- Pass Telcordia GR-1209-Core Reliability Test
- Pass Telcordia GR-1221-Core Reliability Test

Information and specifications are subject to change without notice.
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- RoHS Compliance

Applications

- Telecommunication sector
- PON System
- FTTH
- CATV
- Video Transmission

Technical Specification

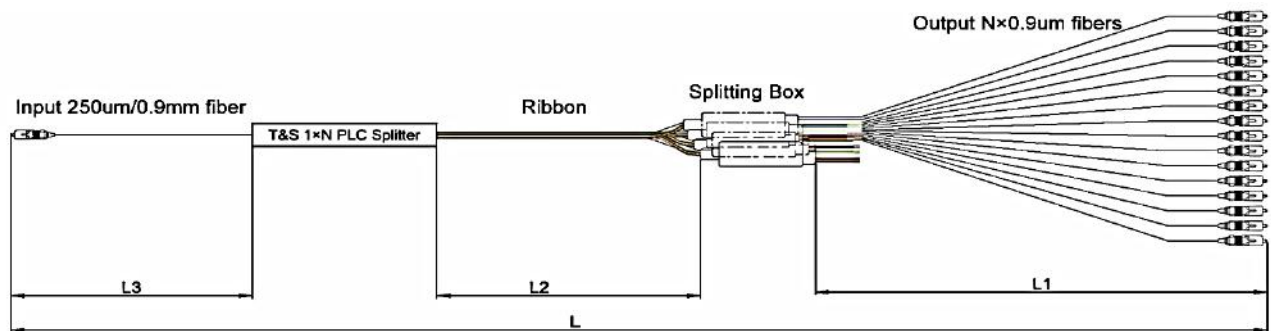
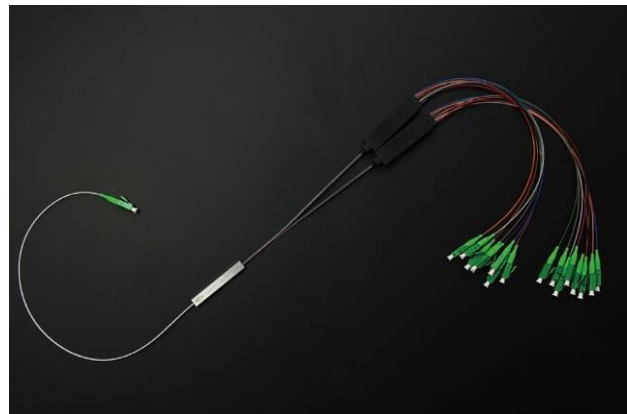
Item		Unit	Parameter						
Operating Wavelength		(nm)	1260 ~ 1650						
1×N PLC Splitter		--	1×2	1×4	1×8	1×16	1×32	1×64	1×128
Insertion Loss	MAX(P/S) ^①	(dB)	3.8/4.0	7.0/7.4	10.5/10.7	13.6/13.9	16.6/16.9	21/21.5	24/24.5
Uniformity	MAX(P/S)	(dB)	0.6/0.6	0.6/0.7	0.8/1.0	0.9/1.2	1.2/1.4	1.7/1.9	2.2/2.5
Return Loss	MIN	(dB)	55						
PDL	MAX(P/S)	(dB)	0.15/0.25	0.15/0.25	0.2/0.25	0.2/0.3	0.25/0.3	0.25/0.35	0.4/0.45
2×N PLC Splitter		--	2×2	2×4	2×8	2×16	2×32	2×64	--
Insertion Loss	MAX(P/S)	(dB)	4.0/4.3	7.4/7.6	10.7/11.0	14/14.5	17.5/18	21.4/21.9	--
Uniformity	MAX(P/S)	(dB)	0.9/1.1	1.0/1.2	1.0/1.2	1.2/1.5	1.5/1.8	2.0/2.3	--
Return Loss	MIN	(dB)	55						
PDL	MAX(P/S)	(dB)	0.25/0.3	0.25/0.3	0.25/0.3	0.3/0.35	0.3/0.35	0.35/0.4	--
Fiber Type		--	ITU-T G657A1, G657A2						
Temperature Stability(-40~85°C)	MAX	(dB)	0.5 (Typical 0.3)						
Operating Temperature		(°C)	-40 ~ 85						
Storage Temperature		(°C)	-40 ~ 85						

All measurements are made at room temperature, and connectors not included.

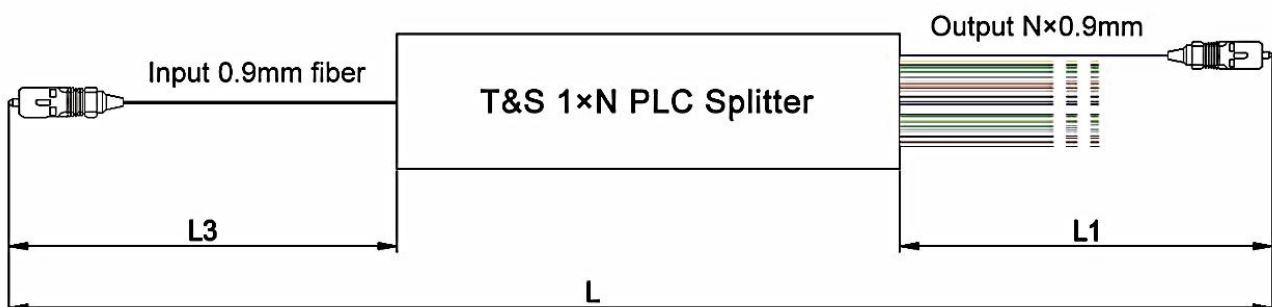
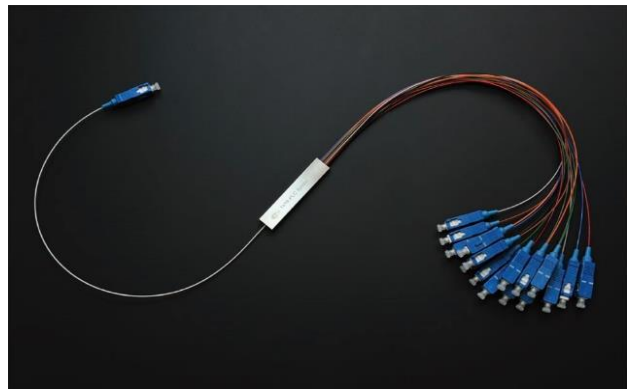
① P: premium grade; S: standard.

PLC Splitter Type and Packaging

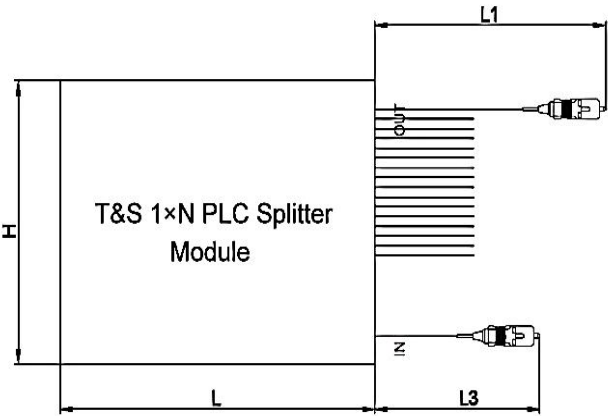
I-- Basic PLC Splitter(Bare ribbon type)



II-- Mini Module Type PLC Splitter



III-- Module Box Type



Splitter Packaging Type and Dimension

1×N Splitter

Package Type & Size	Unit (mm)	1×2	1×4	1×8	1×16	1×32	1×64
I - Basic packaging metal box	L×W×H	40×4×4	40×4×4	40×4×4	45×5×4	55×7×4	60×12×4
II -Mini module packaging metal box		60×7×4	60×7×4	60×7×4	60×12×4	80×20×6	100×40×6
III-Module packaging plastic box		90×20×10 ^① 100×80×10 ^②	100×80×10	100×80×10	120×80×18	120×80×18	140×114×18

①: Input and output are on the opposite side of the box
②: Input and output are on the same side of the box

2×N Splitter

Package Type & Size	Unit (mm)	2×2	2×4	2×8	2×16	2×32	2×64
I - Basic packaging metal box	L×W×H	50×5×4	50×5×4	50×5×4	55×7×4	60×7×4	65×12×4
II -Mini module packaging metal box		65×7×4	65×7×4	65×7×4	80×20×6	80×20×6	100×40×6
III-Module packaging plastic box		90×20×10 ^① 100×80×10 ^②	100×80×10	100×80×10	120×80×18	140×114×18	140×114×18

①: Input and output are on the opposite side of the box
②: Input and output are on the same side of the box