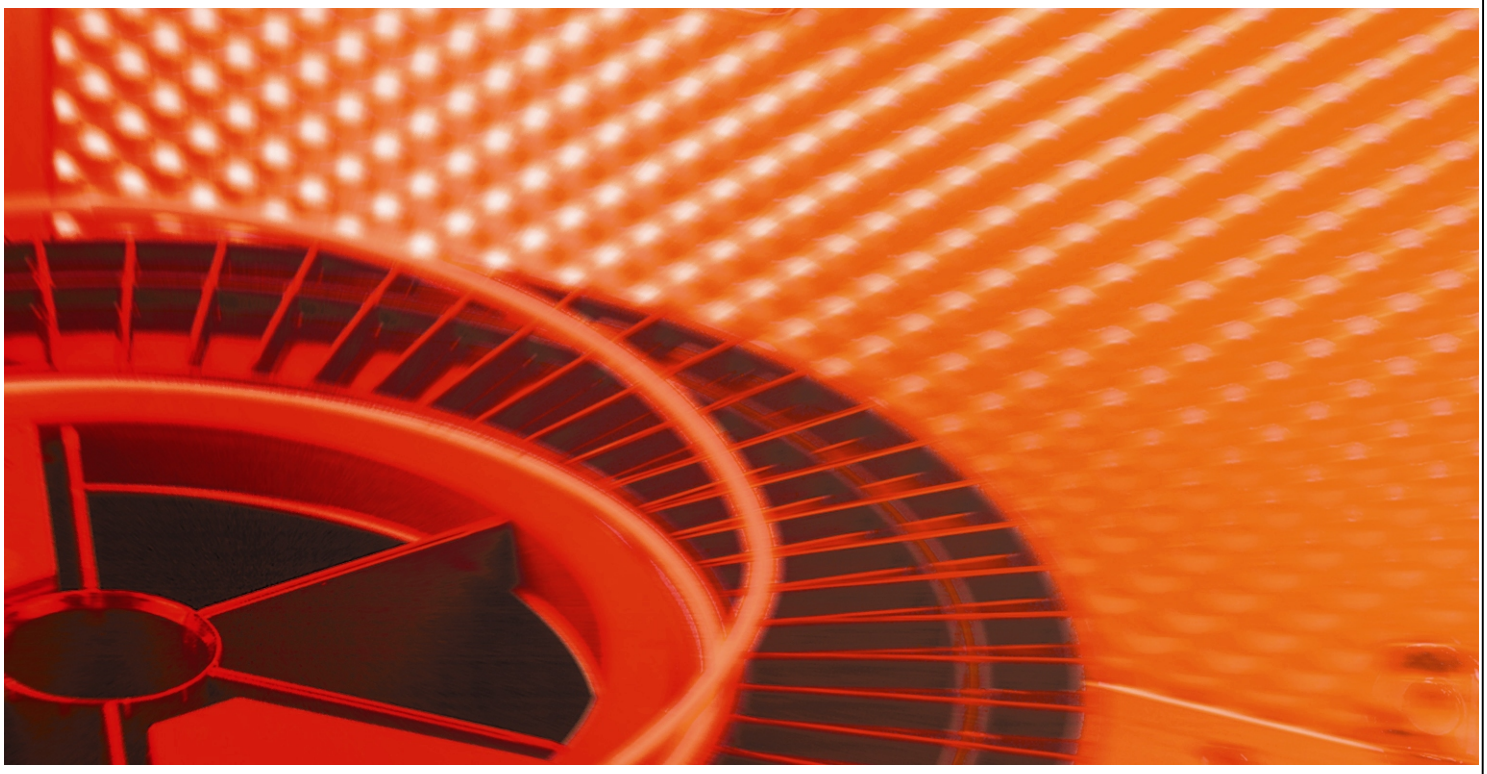
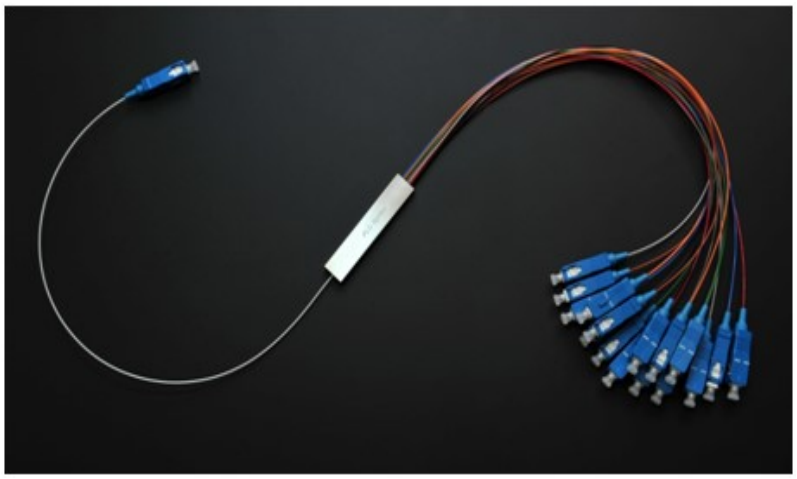
1xN & 2xN PLC Splitters and Splitter Modules



TECHNICAL SPECIFICATION



SDE NETWORK

Spec. N° PLC-02.002

G E N E R A L

PLC - Planar Lightwave Circuit Splitter is a kind of power splitter based on the integrated quartz baseplate. There are 1xN and 2xN types.1xN and 2xN SM PLC Splitters 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 one fiber or two fibers.

Features :

Broadband Operation Wavelength

Low Insertion Loss

Low PDL

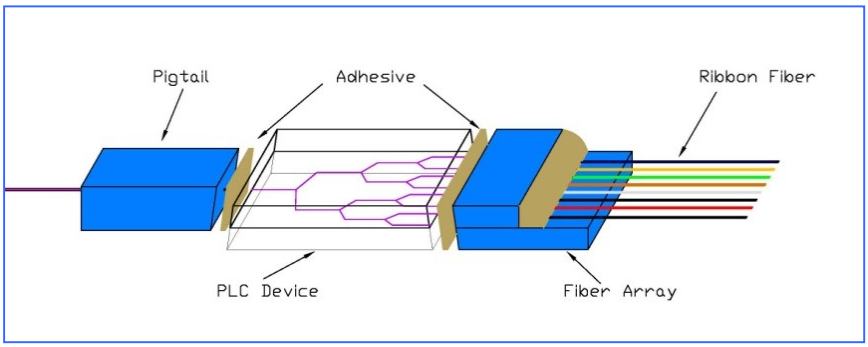
Compact Design

Good channel-channel uniformity

High Reliability and Stability

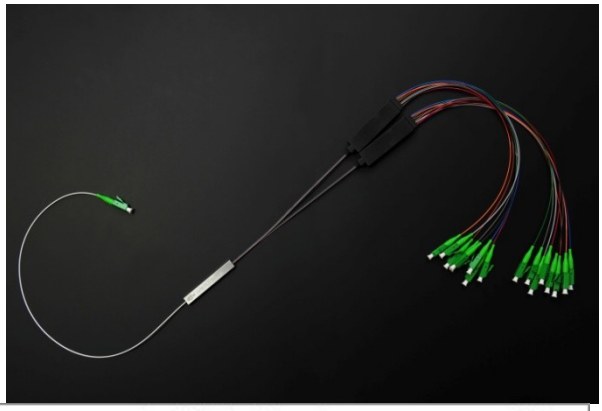
Pass Tecordia GR-1209-Core and GR-1221-Core Reliablity Test

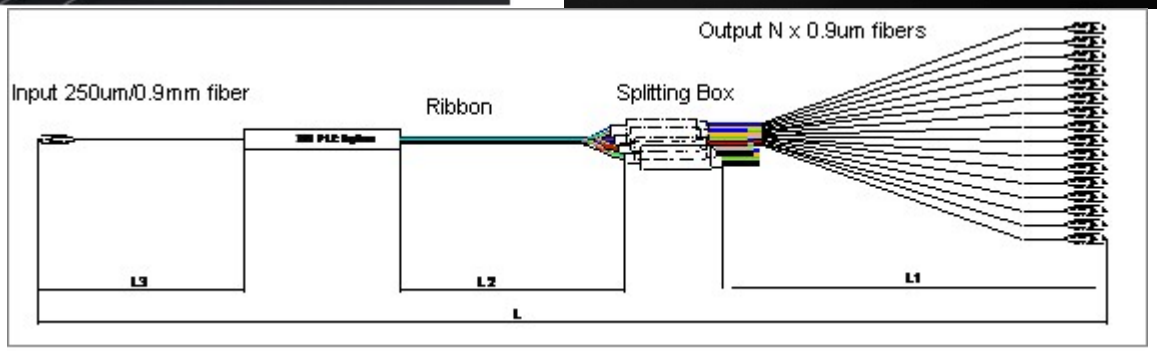
Rohs Compliance



M O D E L S A V A I L A B L E

I.- Basic PLC Splitter (Bare ribbon type)

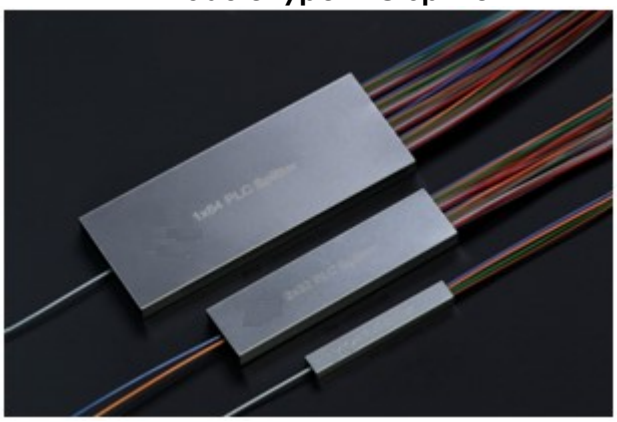


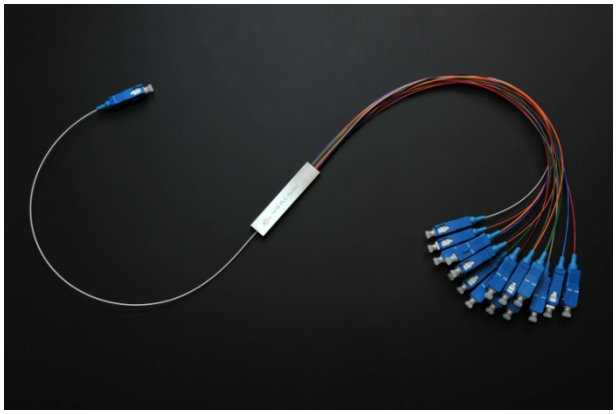


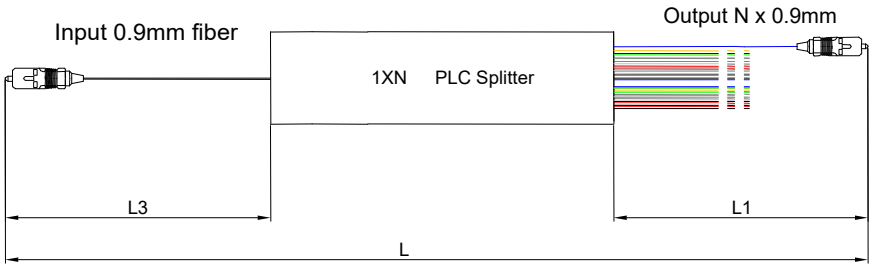
SDE NETWORK

Spec. N° PLC-02.002

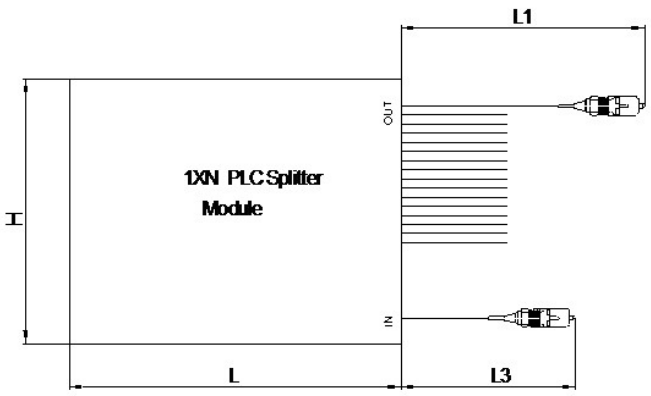
II - Mini Module type PLC Splitter







III – Module Box Type



Input / output: 2mm fiber

SDE NETWORK

O P T I C A L C H A R A C T E R I S T I C S

Operating Wavelength (nm)		1260 ~ 1650					
Fiber type		G657.A					
1XN PLC Splitter		1x2	1x4	1x8	1x16	1x32	1x64
Insertion Loss (dB)	Max	4	7.4	10.7	13.9	16.9	21.5
Loss Uniformity (dB)	Max	0.6	0.7	1.0	1.2	1.4	1.9
Return Loss(dB)	Min	55					
PDL (dB)	Max	0.25	0.25	0.25	0.3	0.3	0.35
2XN PLC Splitter		2x2	2x4	2x8	2x16	2x32	
Insertion Loss (dB)	Max	4.3	7.6	11.0	14.5	18.0	
Loss Uniformity (dB)	Max	1.1	1.2	1.2	1.5	1.8	
Return Loss(dB)	Min	55					
PDL (dB)	Max	0.3	0.3	0.3	0.35	0.35	
Temperature Stability (-40 -85° C) (dB)	Max	0.5					
Operating Temperature (°C)		-40 ~ 85					
Storage Temperature (°C)		-40 ~ 85					

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

P A C K A G I N G

Package Type & Size	Unit mm x mm x mm	**1x2**	**1x4**	**1x8** 8 fibres in a row	**1x16**	**1x32**	**1x64**
I – Basic Packaging Metal box	L*W*H	40*4*4	40*4*4	45*5*4	45*5*4	55*7*4	60*12*4
II - Mini Module packaging Metal box		60*7*4	60*7*4	60*12*4	60*12*4	80*20*6	100*40*6
III- Module Packaging Plastic box		90*20*10	100*80*10	100*80*10	120*80*18	120*80*18	140*114*18

Package Type & Size	Unit mm x mm x mm	**2x2**	**2x4**	**2x8**	**2x16**	**2x32**
I – Basic Packaging Metal box	L*W*H	50*5*4	50*5*4	50*5*4	55*7*4	60*7*4
II - Mini Module packaging Metal box		65*7*4	65*7*4	65*7*4	80*20*6	80*20*6
III- Module Packaging Plastic box		90*20*10	100*80*10	100*80*10	120*80*18	120*80*18

Standard fiber length: 1,20m per side. Other lengths on request.

E N D O F S P E C I F I C A T I O N

SDE NETWORK