

PLC Splitter

Description

Broadex Technologies' Planar Lightwave Circuit (PLC) splitter is a passive optical power management device that uses silica waveguide structures to evenly split an optical signal from 1 or 2 input channels and distribute the split signal to N multiple output channels, commonly described as 1xN or 2xN splitters. products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

The Bare PLC Splitter package has a bare fiber input and fiber ribbon output which minimizes the space occupied by the device, making it ideally suited for integration into larger systems that can protect the fragile bare fiber while minimizing device volume.

Features

- Low insertion loss and PDL
- Excellent channel uniformity
- Compact size
- Wide operating wavelength and temperature range
- High reliability and high stability
- Telcordia GR-1221 and GR-1209 qualified

Applications

- Telecom, datacom
- Local Area Networks (LANs)
- Cable TV (CATV)
- Local Convergence points (LCP)
- FTTX
- Test Equipment



Specifications

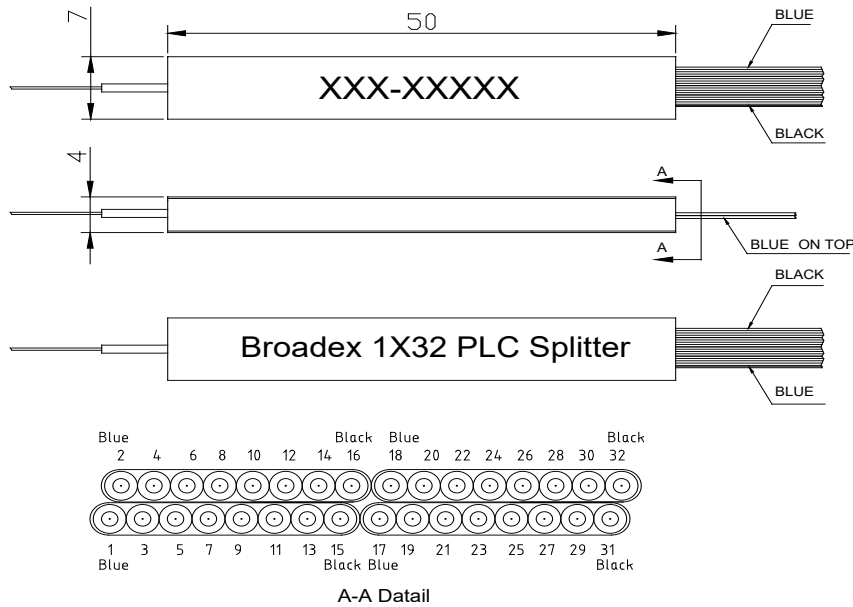
Parameters		1x2	1x4	1x8	1x16	1x32	1x64
Operating Wavelength (nm)		1260-1650					
Insertion Loss (dB)	Typical	3.6	7.0	10.0	13.3	16.3	20.0
	Max(P/S)	3.8/4.0	7.2/7.4	10.5/10.7	13.5/13.7	16.5/16.9	20.5/21.0
Loss Uniformity (dB)	Typical	0.4	0.4	0.5	0.6	0.8	1.2
	Max	0.6	0.6	0.8	1.2	1.5	2.5
Return Loss (dB)(P/S)		55/50	55/50	55/50	55/50	55/50	55/50
PDL (dB)	Typical	0.1	0.1	0.15	0.15	0.15	0.2
	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)	Min	55	55	55	55	55	55
Operating Temperature (°C)		-40 to+85					
Storage Temperature (°C)		-40 to +85					
Packaging Size (LxWxH) (mm)		40x4x4			50x7x4		60x12x4

Parameters		2x2	2x4	2x8	2x16	2x32	2x64
Operating Wavelength (nm)		1260-1650					
Insertion Loss (dB)	Max(P/S)	3.9/4.2	7.5/7.8	11.2/11.5	14.2/14.5	17.4/17.7	21.0/21.5
Loss Uniformity (dB)	Max	0.6	1.2	1.5	1.8	2.0	2.5
Return Loss (dB)(P/S)	Min	55/50	55/50	55/50	55/50	55/50	55/50
PDL (dB)	Max	0.2	0.2	0.4	0.4	0.4	0.4
Directivity (dB)	Min	55	55	55	55	55	55
Operating Temperature (°C)		-40 to+85					
Storage Temperature (°C)		-40 to +85					
Packaging Size (LxWxH) (mm)		40x4x4			50x7x4		70x12x4

Notes: 1. All measurements were done at room temperature, and specifications exclude connectors.

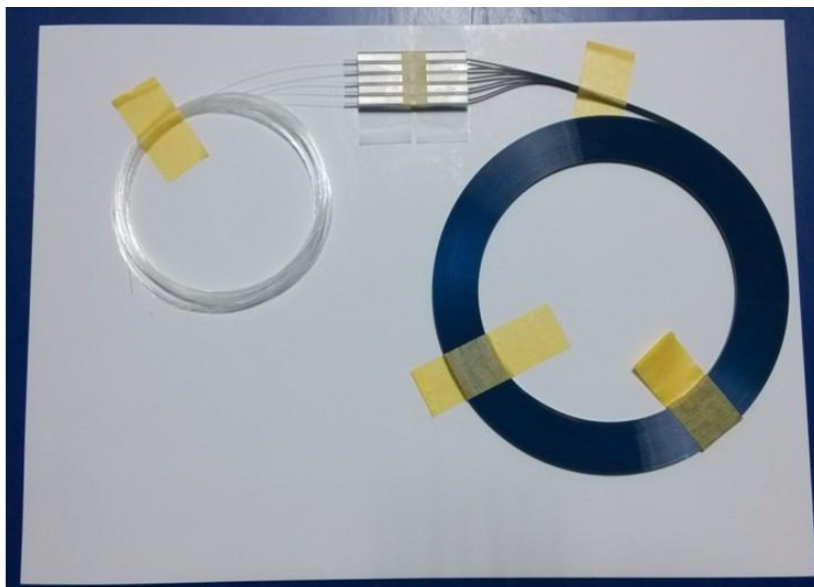
2. S: standard, P: premium

Drawing(1X32):



Port 1	Port 3	Port 5	Port 7	Port 9	Port 11	Port 13	Port 15
Blue	Orange	Green	Brown	Gray	White	Red	Black
Port 2	Port 4	Port 6	Port 8	Port 10	Port 12	Port 14	Port 16
Blue	Orange	Green	Brown	Gray	White	Red	Black
Port 17	Port 19	Port 21	Port 23	Port 25	Port 27	Port 29	Port 31
Blue	Orange	Green	Brown	Gray	White	Red	Black
Port 18	Port 20	Port 22	Port 24	Port 26	Port 28	Port 30	Port 32
Blue	Orange	Green	Brown	Gray	White	Red	Black

Notes: Fiber color and ribbon chromatography can be customized.

Packaging:

Ordering Information

BPS	-XXX	-X	-XX	-X	-XX	-X	-X
B=Broadex P=PLC S=Splitter	Input & Output Count	Input Tube Type	Input Fiber Length	Output Tube Type	Output Fiber Length	Input Connector Type	Output Connector Type
	104=1x4 108=1x8 164=1x64 204=2x4 264=2x64	B=250µm Bare Fiber L=900µm Loose Tube T=900µm Tight Buffer	12=1.2m 15=1.5m XX=Customized	B= 250µm Bare Fiber	12=1.2m 15=1.5m 150=15m	0=None 1=FC/UPC 2=FC/APC 3=SC/UPC 4=SC/APC 5=LC/UPC 6=LC/APC X=Customized	0=None 1=FC/UPC 2=FC/APC 3=SC/UPC 4=SC/APC 5=LC/UPC 6=LC/APC X=Customized

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