

## PLC Splitter LGX BOX

### 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.

Broadex Technologies offers a wide variety of splitter products with LGX box and rack mount packaging including adapters which allow for quick and convenient integration into fiber splice enclosures, distribution boxes, data integration cabinets and more. A custom design and manufacturing service is available to maximize ease of integration.

### Features

- Low insertion loss and PDL
- Excellent channel uniformity
- 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



**Specifications**

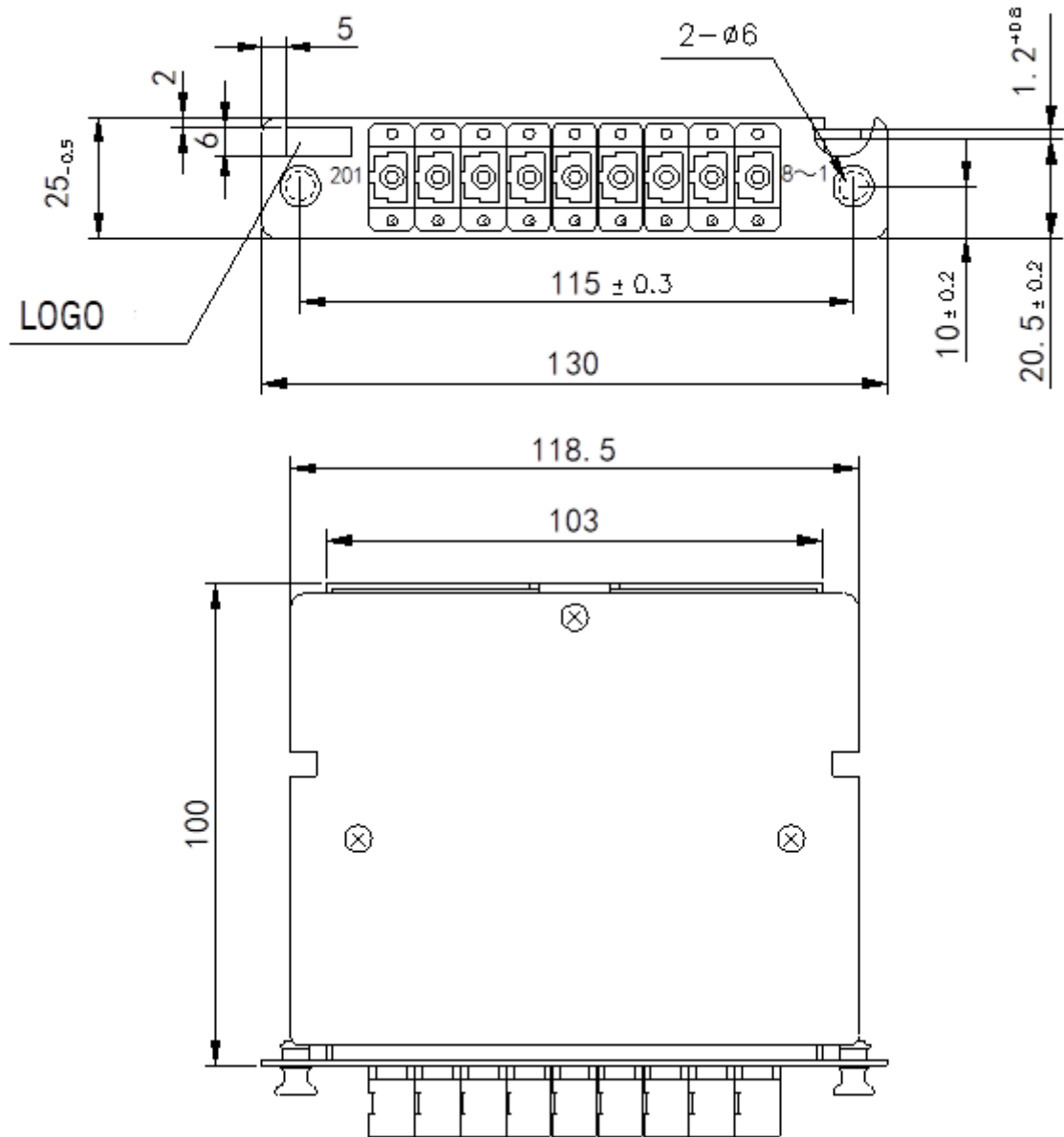
Parameters		1x2	1x4	1x8	1x16	1x32	1x64	
Operating Wavelength (nm)		1260-1650						
Insertion Loss (dB)	Typical	4.0	7.3	10.5	13.8	16.8	20.5	
	Max	P	4.3	7.5	11.0	14.0	17.0	21.0
		S	4.5	7.7	11.2	14.2	17.5	21.5
Loss Uniformity (dB)	Typical	0.4	0.4	0.5	0.6	0.8	1.2	
	Max	0.6	0.6	0.8	1.2	1.5	2.5	
Return Loss (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)		60x7x4		60x12x4		80x20x6	100x40x6	

Parameters		2x2	2x4	2x8	2x16	2x32	2x64	
Operating Wavelength (nm)		1260-1650						
Insertion Loss (dB)	Max	P	4.4	8.0	11.7	14.7	17.9	21.5
		S	4.7	8.3	12.0	15.0	18.2	22.0
Loss Uniformity (dB)	Max	1.0	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)		60x7x4		80x12x4		80x20x6	100x40x6	

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

2. S: standard, P: premium

Mechanical drawing:



**Packaging:**



**Ordering Information**

<b>BPSB</b>	<b>-XXX</b>	<b>-XX</b>	<b>-X</b>	<b>-X</b>
B=Broadex	Input & Output Count	BOX Type	Input Connector Type	Output Connector Type
P=PLC	104=1x4	01=1U Rack	0=None	0=None
S=Splitter	108=1x8	02=2U Rack	1=FC/UPC	1=FC/UPC
B=Box	.....	03=3U Rack	2=FC/APC	2=FC/APC
	164=1x64	04=LGX	3=SC/UPC	3=SC/UPC
	204=2x4	05=ODF	4=SC/APC	4=SC/APC
	.....	XX= Customized	5=LC/UPC	5=LC/UPC
	264=2x64		6=LC/APC	6=LC/APC
			X=Customized	X=Customized

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