

## PLC Splitter Module

### 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 modularized cassette packaging. These ruggedized ABS plastic modules feature fiber jackets up to 3mm diameter with a choice of fiber termination connectors, and customized designs for specific applications are welcomed.

### 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**

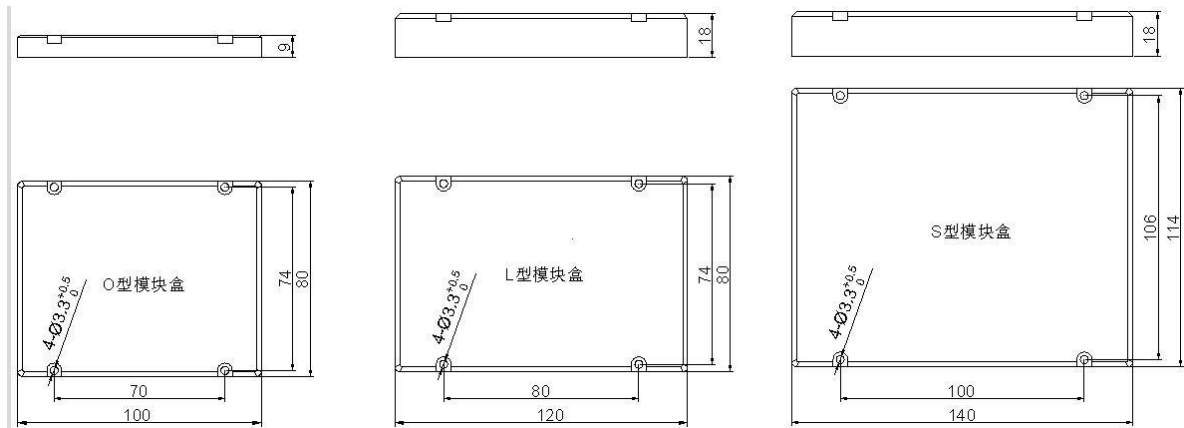
Parameters		1x2	1x4	1x8	1x16	1x32	1x64	
Operating Wavelength (nm)		1260-1650						
Insertion Loss (dB)	Typical	4.0	7.3	10.5	13.8	16.8	20.5	
	Max	P	4.3	7.5	11.0	14.0	17.0	21.0
		S	4.5	7.7	11.2	14.2	17.5	21.5
Loss Uniformity (dB)	Typical	0.4	0.4	0.5	0.6	0.8	1.2	
	Max	0.6	0.6	0.8	1.2	1.5	2.5	
Return Loss (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)		100x80x10		120x80x18		140x114x18		

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)		100x80x10		120x80x18		140x114x18		

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

2. S: standard, P: premium

**Mechanical drawing:**



**Packaging:**



### Ordering Information

BPSM	-XXX	-XX	-XX	-XX	-X	-X
B=Broadex	Input & Output	Cassette Type	Fiber Cable	Fiber Length	Input Connector Type	Output Connector Type
P=PLC	Count	PO=Type O, Plastic	Type	12=1.2m	0=None	0=None
S=Splitter	104=1x4	PL=Type L, Plastic	09=0.9m	15=1.5m	1=FC/UCP	1=FC/UCP
M=Module	108=1x8	PS=Type S, Plastic	20=2.0m	XX=Customized	2=FC/ACP	2=FC/ACP
	.....	MX=LGX Type, Metal	30=3.0m		3=SC/UPC	3=SC/UPC
	164=1x64				4=SC/APC	4=SC/APC
	204=2x4				5=LC/UPC	5=LC/UPC
	.....				6=LC/APC	6=LC/APC
	264=2x64				X=Customized	X=Customized

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