



PLC Splitter



Introduction

The single-mode Planar Light wave Circuit Splitter is developed based on unique quartz glass waveguide and processes with reliable precision aligned fiber pigtail in a miniature package. It provides a low cost light distribution solution with small form factor and high reliability. InBERG's PLC Splitter has standard configurations of 1x2, 1x4, 1x8, 1x16 and 1x32 configurations, as well as customized structures of 2x16, 2x32 and so on.

Key Features

- Compact design
- Low insertion loss and low PDL
- High reliability
- High channel counts
- Wide wavelength range
- Wide operating temperature range
- Customized packaging and configuration

Applications

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other applications in fiber optic systems

Reliability

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE

Specifications

Port Configuration	1x2	1x4	2x4	1x8	2x8	1x16	2x16	1x32	2x32	1x64	
Operating Wavelength (nm)	1260~1650										
Fiber Type	G652D OR G657A										
Insertion Loss (dB)	≤4.3	≤7.2	≤7.5	≤10.5	≤11.2	≤13.6	≤14.6	≤17.0	≤17.5	≤21	
LOSS Uniformity (dB)	≤0.5	≤0.6	≤1.2	≤0.8	≤1.5	≤1.4	≤2.0	≤1.6	≤2.5	≤2.5	
PDL (dB)	< 0.2			< 0.3				< 0.5			
Directivity (dB)	>55										
Return Loss (dB)	>55										
Operation Temperature (°C)	-40~+85										
Storage Temperature (°C)	-40~+85										
Packaging Size (LxWxH) (mm)	40x4x4	40x4x4	45x4.5x4	45x4.5x4	50x4.5x4	45x4.5x4	60x7x4	50x7x4	65x7x4	60x12x4	



∅ 0.9mm Loose Tube Packaging Size(L×W×H) (mm)	50×7×4	50×7×4	60×7×4	60×12×4	60×12×4	60×12×4	80×12×4	80×20×6	90×20×6	100×20×6
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Other Packaging Size

	ABS Size (for pigtail 2.0mm)			ABS Size (for pigtail 3.0mm)	
PLC type	1x2,1X4;2X4	1X8;2X8	1X16;2X16;1X32; 2X32	1X8; 1X16	1X32;2X32
ABS dimensions(mm)	100x80x10	100x80x10	120x80x18	120X80X18	141X115X18

Ordering Information:

	Port Configuration	Fiber Type	Fiber Type-in	Pigtail Type-out	Pigtail length	Connector
IB-PLC	12=1X2	S=G652D	1=0.25mm	R=0.25mm	1=1M	0=none
	14=1X4	G=G657A	2=0.9mm	F=0.9fanout 2=0.9mm 3=∅3mm 4=2.0mm	2=2M	1=FC/APC
	18=1X8		3=3.0mm		3=3M	2=FC/PC
	116=1X16		4=2.0mm		O=Other	3=SC/APC
	132=1X32					4=SC/PC
	164=1X64					5=ST
	24=2X4					6=LC/PC
	28=2X8					7=LC/APC
	216=2X16					P=MPO
	232=2X32					X=Other

e.g. 1X4 PLC Splitter, SC/PC G652D, IN/OUT 0.9mm, 2M,

Part no.: IB-PLC-14S-22-2-4