

ABS Box PLC Splitter

Description

The Gigalight ABS box PLC (Planar Lightwave Circuit) splitter is a type of optical power management device with plastic ABS box package fabricated using silica optical waveguide technology. It is widely used in PON/ODN networks to realize optical signal power splitting with 1xN or 2xN splitting ratio. Gigalight provides a series of customized ABS box PLC splitters to meet different requirements on port configuration, cable type, fiber length, input connector, and output connector.

Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ Compact design
- ✓ Wide operating wavelength range
- ✓ Good channel-to-channel uniformity
- ✓ High reliability and high stability
- ✓ Telcordia GR-1209-CORE-2001 compliant
- ✓ Telcordia GR-1221-CORE-1999 compliant
- ✓ YD/T-1272Q compliant
- ✓ Q/CT-2295 compliant
- ✓ RoHS-6 compliant (lead free)



Applications

- ✓ FTTH systems
- ✓ PON networks
- ✓ CATV links
- ✓ Communication Equipment

Specifications

Parameters	1×N ABS Box PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	1×2	1×4	1×8	1×16	1×32	1×64
Max Insertion Loss (dB) (P/S Grade)	4.1/4.3	7.4/7.6	10.5/10.8	13.8/14.0	16.8/17.2	20.8/21.3
Max Loss Uniformity (dB)	0.6	0.7	0.8	1.2	1.5	2.0
Max PDL (dB)	0.2			0.25		0.35
Min Return Loss (dB)	55					
Min Directivity (dB)	55					
Max Wavelength Dependent Loss (dB)	0.5			0.8		1.0
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-5 ~ 75					
Storage Temperature (°C)	-40 ~ 85					
Device Dimension L×W×H (mm)	100×80×10			120x80x18	140x115x18	

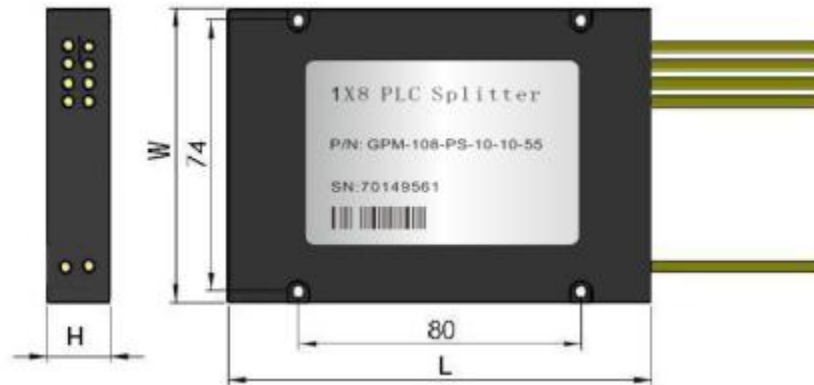
Parameters	2×N ABS Box PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	2×2	2×4	2×8	2×16	2×32	2×64
Max Insertion Loss (dB)	4.5	7.9	11.3	14.7	17.8	21.3
Max Loss Uniformity (dB)	0.9	1.0	1.2	1.5	1.8	2.2
Max PDL (dB)	0.3				0.35	0.4
Min Return Loss (dB)	55					
Min Directivity (dB)	55					
Max Wavelength Dependent Loss (dB)	0.5			0.8		1.0
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-5 ~ 75					
Storage Temperature (°C)	-40 ~ 85					
Device Dimension L×W×H (mm)	100×80×10			120x80x18	140x115x18	

Note:

- 1) All specifications are based on the devices with connectors.
- 2) Fiber type is G657A1.
- 3) IL, PDL, WDL can also be customer specified.

Mechanical Dimensions

1×8 ABS Box PLC Splitter (100×80×10):



Ordering Information

GPM-xxx-Px-	xx-	xx-	x	x
ABS Box PLC Splitter	Fiber Type	Fiber Length	Input Connector	Output Connector
PS: 100×80×10	09=0.9mm loose tube	10=1.0m	0=None	0=None
PM: 120×80×18	20=2.0mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC
PL: 145×115×18	30=3.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC
xxx:		25=2.5m	3=SC/UPC	3=SC/UPC
102=1×2		...	4=SC/APC	4=SC/APC
..			5=LC/UPC	5=LC/UPC
264=2×64			6=LC/APC	6=LC/APC

Note :

If you need any other special requirement, please contact our sales.

E-mail: sales@gigalight.com

Official Site: www.gigalight.com