

## Wall Mount PLC Splitter

### Description

The Gigalight wall mount PLC (Planar Lightwave Circuit) splitter is a type of optical power management device with metal wall mount 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 wall mount PLC splitters to meet different requirements on port configuration, input connector, and output connector.

### Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ Compact design with adapters
- ✓ 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
- ✓ Optical fiber sensing systems
- ✓ Aerospace and military applications

### Specifications

Parameters	1×N Wall Mount PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	1×2	1×4	1×8	1×16	1×32	1×64
Max IL (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 WDL (dB)	0.5			0.8		1.0
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-40 ~ 85					
Storage Temperature (°C)	-40 ~ 85					
Dimension L×W×H (mm)	205×115×35	207×181×45	300×220×80	450×310×140	450×400×150	

Parameters	2×N Wall Mount PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	2×2	2×4	2×8	2×16	2×32	2×64
Max IL (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 WDL (dB)	0.5			0.8	1.0	
Max Temperature Stability (dB)	0.5					
Operating Temperature (°C)	-40 ~ 85					
Storage Temperature (°C)	-40 ~ 85					
Dimension L×W×H (mm)	205×115×35	207×181×45	300×220×80	450×310×140	450×400×150	

### Note:

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

### Ordering Information

GPB-xxx-WM	-	x	x
Wall Mount PLC Splitter		Input Connector	Output Connector
xxx:		0=None	0=None
102=1×2		1=FC/UPC	1=FC/UPC
...		2=FC/APC	2=FC/APC
164=1×64		3=SC/UPC	3=SC/UPC
202=2×2		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](mailto:sales@gigalight.com)

Official Site: [www.gigalight.com](http://www.gigalight.com)