

PM PLC Splitter

Mini Module & ABS Box

Description

The Gigalight PM (Polarization Maintaining) PLC (Planar Lightwave Circuit) splitter is an optical power management device based on the quartz glass waveguide technology, precision and reliable fiber array, and miniaturized coupling package. Using PM fiber can make the two orthogonal linear polarized light transmitted stably, make their polarization state keep constant, which makes the PM fiber coupler/splitter realize PM coupling and splitting light. It is widely used in PON/ODN networks to realize optical signal power splitting with 1xN splitting ratio. Gigalight provides a series of customized PM PLC splitters with mini module or ABS box package to meet different requirements on port configuration, cable type, fiber length, input connector, output connector, and the Panda eye angle.

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)

Mini Module



ABS Box



Applications

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

Specifications

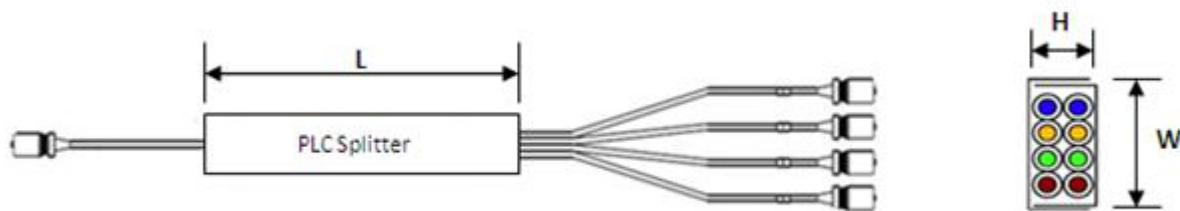
Parameters	1×N PM PLC Splitters					
Operating Wavelength (nm)	1260 ~ 1650					
Port Configuration	1×2	1×4	1×8	1×16	1×32	1×64
Max Insertion Loss (dB) (P/S Grade)	4.1/4.3	7.4/7.6	10.5/10.8	13.8/14.0	16.8/17.2	20.8/21.3
Max Loss Uniformity (dB)	0.6	0.7	0.8	1.2	1.5	2.0
Max PDL (dB)	0.2			0.25		0.35
Min 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					
Mini Module Dimension L×W×H (mm)	60×7×4			60×12×4	80×20×6	100×40×6
ABS Box Dimension L×W×H (mm)	100×80×10			120×80×18	140×115×18	

Note:

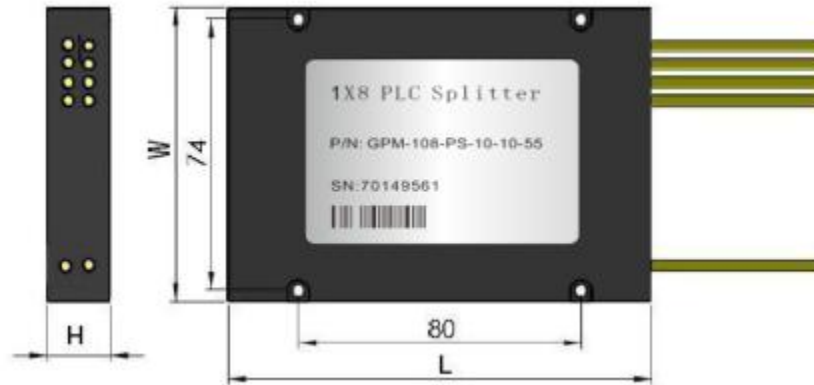
- 1) All specifications are based on the devices with connectors.
- 2) Fiber type is G657A1.
- 3) IL, PDL, WDL can also be customer specified.

Mechanical Dimensions

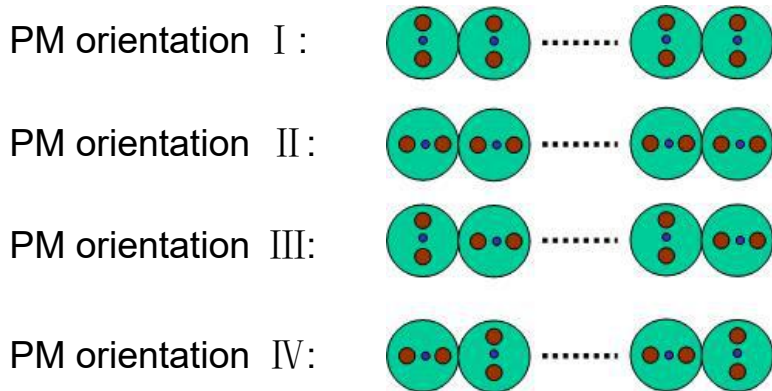
Mini Module:



ABS Box:



PM Orientation Type (Panda Eye Angle)



Ordering Information

GPM-xxx-MM-	xx-	xx-	X	X-	X
	Fiber Type	Fiber Length	Input Connector	Output Connector	Panda Eye Angle
PM PLC Splitter Mini Module xxx: 102=1×2 ... 164=1×64	09=0.9mm loose tube	10=1.0m	0=None	0=None	1= I
	20=2.0mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC	2=II
	30=3.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC	3=III
		25=2.5m	3=SC/UPC	3=SC/UPC	4=IV
		...	4=SC/APC	4=SC/APC	
			5=LC/UPC	5=LC/UPC	
			6=LC/APC	6=LC/APC	

Passive Optical Components

Data Sheet



Optical Interconnection Design Innovator

GPM-xxx-Px-	xx-	xx-	x	x-	x
PM PLC Splitter	Cable Type	Fiber Length	Input Connector	Output Connector	Panda Eye Angle
ABS Box PS: 100×80×10	09=0.9mm loose tube	10=1.0m	0=None	0=None	1= I
ABS Box PM: 120×80×18	20=2.0mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC	2=II
ABS Box PL: 145×115×18	30=3.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC	3=III
xxx:		25=2.5m	3=SC/UPC	3=SC/UPC	4=IV
102=1×2		...	4=SC/APC	4=SC/APC	
...			5=LC/UPC	5=LC/UPC	
164=1×64			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