

Planar Lightwave Circuit Splitter Mini module PLC

Description

Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. Gigalight provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE-2001 and GR-1221-CORE-1999 requirements.

Features

- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength:
From 1260nm to 1650nm
- Wide Operating Temperature:
From -40°C to 85°C
- High Reliability and Stability



Applications

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

Compliance

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS

1×N、2XN PLC Mini Module

Parameters	1×2	2×2	1×4	2×4	1×8	2×8	1×16	2×16	1×32	2×32	1×64	2×64
Operating Wavelength (nm)	1260~1650											
Insertion Loss (dB) (P/S Grade)	3.8/ 4.0	4.0/ 4.2	7.1/ 7.3	7.6/ 7.8	10.2/ 10.5	11.0/ 11.2	13.5/ 13.7	14.4/ 14.6	16.5/ 16.9	17.5/ 17.9	20.5/ 21.0	21.0/ 21.5
Loss Uniformity (dB)	0.4	0.6	0.6	1.0	0.8	1.2	1.2	1.5	1.5	2.0	2.0	2.2
Return Loss (dB) (P/S Grade)	55/50											
Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.2	0.2	0.3	0.25	0.3	0.3	0.4	0.35	0.4
Directivity (dB)	55											
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Stability (-40~85 °C) (dB)	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Operating Temperature (°C)	-40~85											
Storage Temperature (°C)	-40~85											
Mini-Module Dimension (mm) (LxWxH)	50x7x4						60x12x4		80x20x6		100×40×10	

Notes:

- 1、Specified without connectors.
- 2、Add an additional 0.15dB loss per connector.

Ordering information

GPM	-	XXX	-	XX	-	XX	-	XX	-	X	X
		Port Configuration		Modules type		Cable type		Fiber length		Input connector	Output connector
G=Gigalight		102=1X2		PL=140X115X18, plastic		09=∅0.9mm		10=1.0m		0=None	0=None
P=PLC splitter		104=1X4		PM=120X80X18, plastic		20=∅2.0mm		15=1.5m		1=FC/UPC	1=FC/UPC
M=Module		108=1X8		PS=100X80X10, plastic		30=∅3.0mm		20=2.0m		2=FC/APC	2=FC/APC
			MM=Mini-Module					3=SC/UPC	3=SC/UPC
		164=1X64		XX=Customized						4=SC/APC	4=SC/APC
		202=2X2								5=LC/UPC	5=LC/UPC
									6=LC/APC	6=LC/APC
		264=2X64								X=Customized	X=Customized