

Planar Light-wave Circuit (PLC Splitter)

Discription

This document detail is specifications of 1×N PLC splitter modules.
The PLC splitters are fully compliant with Telcordia GR-1209 and Gr1221 reliability stipulations.

Application

- FTTH system
- LAN / WAN / MAN Network system
- Analog / digital passive optical network
- Cable television (CATV)



1x8 PLC Splitter
Mini Module

Features

- Compact and accurate design
- Low insertion loss and polarization related loss
- High reliability
- More channels
- Wide operation wave-length range
- Wide operation temperature range
- Package and shape could be made as customer requested
- Passed Telcordia GR-1221 and GR-1209 test



1x16 PLC Splitter
ABS Module

1xN Specifications with connector

PARAMETERS	UNIT	Specifications					
		1x2	1x4	1x8	1x16	1x32	1x64
Operating wavelength	nm	1260-1650					
Insertion loss	Typical	3.8	7.1	10.2	13.5	16.8	20.1
	Maximum	4.2	7.4	10.7	13.9	17.2	21.2
Uniformity(Maximum)	dB	0.4	0.6	0.8	1.2	1.5	2.0
Polarization Dependent Loss (Maximum)	dB	0.2	0.2	0.2	0.3	0.3	0.35
Wavelength dependent loss(Maximum)	dB	1.0					
Return loss(Maximum)	dB	≥45 (PC) ; ≥50 (UPC) ; ≥55 (APC)					
Directivity(Maximum)	dB	≥55					
Operating temperature	°C	-40~ 80					
Storage temperature	°C	-40~ 85					
Optical fiber type		G657A1 or customer specified					
Optical fiber length	mw	1.2 or customize					

2xN Specifications without connector

PARAMETERS	UNIT	Specifications					
		2x2	2x4	2x8	2x16	2x32	2x64
Operating wavelength	nm	1260-1650					
Insertion loss	Typical	4.0	7.3	10.5	13.8	17	20.5
	Maximum	4.2	7.6	11	14.2	17.9	21.5
Uniformity(Maximum)	dB	1	1.5	1.5	2	2	2.5
Polarization Dependent Loss (Maximum)	dB	0.3	0.3	0.3	0.3	0.3	0.5
Wavelength dependent loss(Maximum)	dB	1.0					
Return loss(Maximum)	dB	≥45 (PC) ; ≥50 (UPC) ; ≥55 (APC)					
Directivity(Maximum)	dB	≥55					
Operating temperature	°C	-40~ 80					
Storage temperature	°C	-40~ 85					
Optical fiber type		G657A1 or customer specified					
Optical fiber length	mw	1.2 or customize					

Note: Measure the above parameters at room temperature, but exclude connector data. On the basis of the above, the products with connectors are increased by no more than 0.3dB.