Optical PLC Splitters

Product Information

PLC splitter is based on the planar waveguide Technology. It provides a low cost power distribution solution with small form factor and high reliability.

Features

- Low insertion loss
- Low PDL
- High return loss
- Uniform power splitting
- Compact design
- Wide operating wavelength
- Wide operating temperature
- Excellent environmental and mechanical stability
- Qualified under Telcordia GR-1221 and GR-1209

Application

- FTTx (FTTB, FTTH, FTTC, FTT5G)
- Passive optical networks (PON)
- Local area networks (LAN)
- CATV systems
- Test equipment

Technical Specification

Parameter	Unit	Specification
Operation Wavelength	nm	1260 ～ 1650
Uniformity (Max.)	dB	0.8
Polarization Dependent Loss	dB	0.25
Return Loss	dB	≥ 55
Directivity	dB	≥ 55
Fiber Type		G652D, G657A1, G657A2
Package Dimension	mm	I. Steel Tube II. ABS Black Box III. LGX Box
Pigtail Type	mm	I. Input: 0.9mm, Output: 0.9mm
		II. Input: 2.00mm, Output: 2.00mm
Pigtail Length	m	Input: 0.5, 1.0, 1.5, 2.0m Output: 0.5, 1.0, 1.5, 2.0m

Product Specification

Insertion Loss (1xN Splitter)

Parameter		Unit	Value								
Product Type			1×2	1×3	1×4	1×6	1×8	1×16	1×32	1×64	1×128
Operation Wavelength		nm	1260 ~ 1650								
Insertion Loss	Typ.	dB	3,5	5,3	6,9	9,3	10,3	13,6	16,6	20,1	24,5
	Max.	dB	4,3	5,8	7,4	9,8	10,7	13,9	17,2	21,5	25,5
Uniformity (Max.)		dB	0,5	0,6	0,8	0,8	0,8	1,4	1,6	2.0	2,6
PDL (Max.)		dB	0.2	0.25	0.3	0.3	0.3	0.3	0.3	0.5	0.8
TDL (Max.)		dB	0,5								
Return Loss		dB	≥ 55 / 50								
Directivity		dB	≥ 55								

Note: All the data above does not include connectors.
UPC & APC Connectors add IL approximately 0.2 dB

Environmental Conditions:

- Operating Temperature: - 40 to +85°C
- Storage Temperature: - 40 to +85°C
- Operating Humidity: ≤ 93%RH
- Storage Humidity: ≤ 93%RH

Connector Type:

- without connectors
- SC/UPC & SC/APC
- LC/PC & LC/APC
- E2000

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