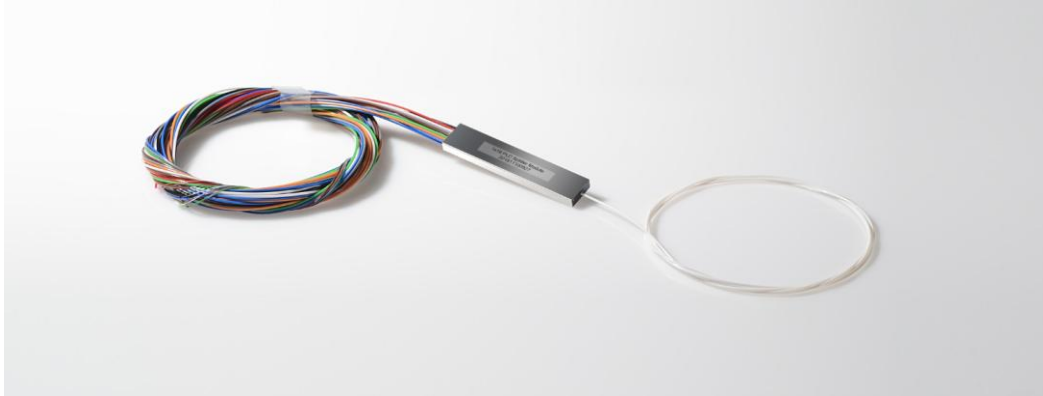


PLC Splitter without connector



Product description

Planar waveguide light optical distributor (PLC Splitter), is a kind of planar waveguide integrated optical device, it can be 1260nm ~ 1650nm such a wide range of wavelengths of light power reservation in realization, the distribution of wavelength range covers EPON technology used 1310nm, 1490nm and 1550nm three wavelengths. Especially suitable for EPON Ethernet passive optical network access technology FTTP fiber network system, broadband passive optical distributor (POS) use.

Features

- 1.Low Insertion loss and Low PDL
- 2.Uniform power splitting
- 3.High reliability
- 4.Excellent environmental stability
- 5.Compact size and various package

Applications

- 1.FTTx Systems
- 2.Digital, hybrid and AM-Video systems
- 3.LAN,WAN and Metro Networks
- 4.CATV systems
- 5.Other applications in fiber optic systems

Pecifications and Models:

Model	Output tube diameter	Inlet/ outlet fiber length	Pipe Sizes
1:1 Splitter	0.25mm/0.9mm	1M	4mm*7mm*50mm
1:2 Splitter	0.25mm/0.9mm	1M	4mm*7mm*50mm
1:4 Splitter	0.25mm/0.9mm	1M	4mm*7mm*60mm
1:8 Splitter	0.25mm/0.9mm	1M	4mm*12mm*60mm
1:16 Splitter	0.25mm/0.9mm	1M	6mm*20mm*80mm
1:32 Splitter	0.25mm/0.9mm	1M	6mm*40mm*100mm

Mechanical and environmental characteristics:

Projects	Parameter
Operating temperature	-25℃~+40℃
Storage temperature	-25℃~+55℃
Relative humidity	≤85%(+30℃)
Air pressure	70Kpa~106Kpa

PLC Splitter performance:

1×N PLC Splitter (Measured at room temperature and excludes connector loss)

type		1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)		1260-1650					
Insertion loss (dB)	Max	3.8	7.2	10.2	13.5	16.5	20.5
Loss uniformity (dB)	Max	0.5	0.6	0.8	1.0	1.5	2.0
Return Loss (dB)		≥50	≥50	≥50	≥50	≥50	≥50
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		≥55	≥55	≥55	≥55	≥55	≥55
Fiber Type		Corning smf-28e or customer designation					
Wavelength Dependent Loss (dB)	Max	0.6	0.6	0.6	0.8	0.8	0.8
Temperature correlation loss-40~85℃ (dB)	Typical value	0.2	0.2	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5
Working Temperature (℃)		-40~85℃					
Storage Temperature (℃)		-40~85℃					

2×N PLC Splitter (Measured at room temperature and excludes connector loss)

type		2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)		1260-1650					
Insertion loss (dB)	Max	4.0	7.4	10.5	13.9	17.0	20.5
Loss uniformity (dB)	Max	0.5	0.6	0.8	1.0	1.5	2.0
Return Loss (dB)		≥50	≥50	≥50	≥50	≥50	≥50
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		≥55	≥55	≥55	≥55	≥55	≥55
Fiber Type		Corning smf-28e or customer designation					
Wavelength Dependent Loss (dB)	Max	0.6	0.6	0.6	0.8	0.8	0.8
Temperature correlation loss-40~85℃ (dB)	Typical value	0.2	0.2	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5
Working Temperature (℃)		-40~85℃					
Storage Temperature (℃)		-40~85℃					