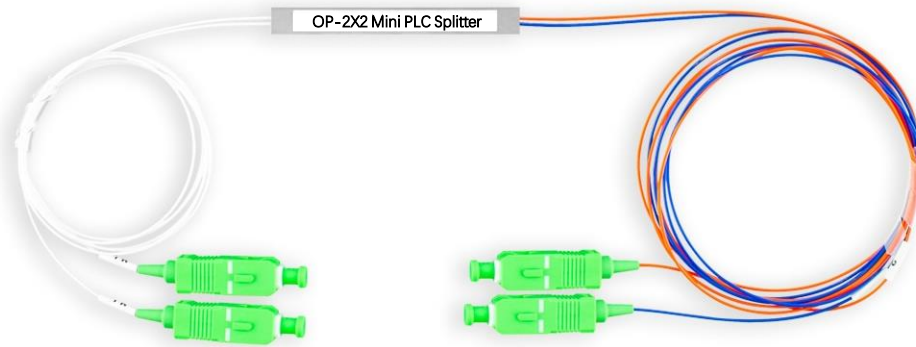


OPTICO Standard PLC Splitter Datasheet

Widely used in passive optical networks (such as EPON, GPON, BPON, FTTH, FTTH, etc.), and supports multiple users to share a single PON interface.



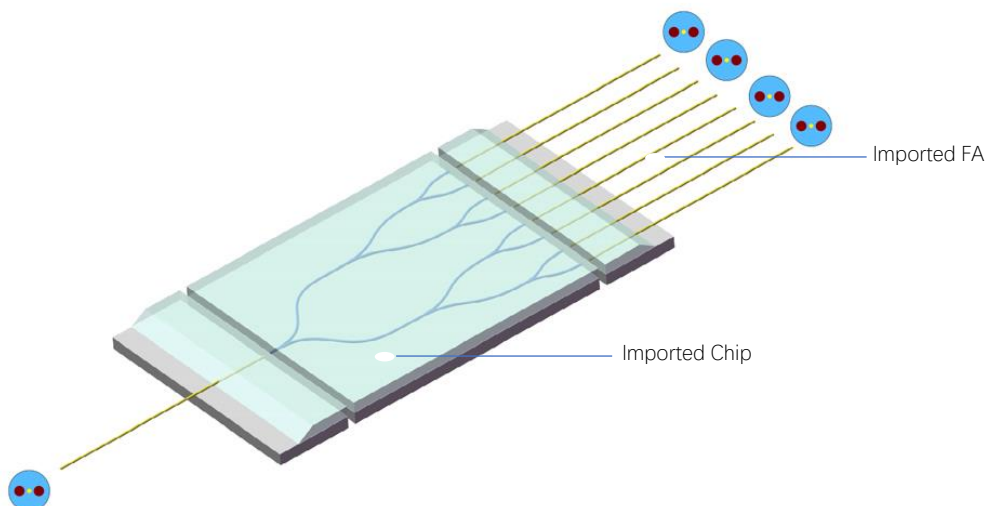
• Description

Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from Central Office (CO) to multiple premise locations. OPTICO full arrange PLC Splitters feature small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity.

• Advantages

- Low insertion loss and high return loss
- PDL automatic screening system (Ultra low PDL is available)
- High reliability and stability
- Connector can up to grade B
- 100% 3D tested by Daisi and Sumix
- High-low temperature cycle test
- 100% tested before delivery
- FTTH Cabling solution could be design

• Transmission Drawing(Unit: mm)



• Specifications:

Parameter		1x2	1x4	1x8	1x16	1x32	1x64	1x128
Operating Wavelength(nm)		1260~1650						
Fiber Type		G657A or as customized						
Typical Insertion Loss(dB)		4.0	7.0	10.0	13.2	16.5	20.5	24.5
Loss Uniformity(Max.)		0.5	0.8	1.0	1.4	1.6	2.0	2.6
PDL(Max.)		0.2	0.3	0.3	0.3	0.3	0.5	0.8
Return Loss(dB)		≥55						
Directivity(Db)		≥55						
Wavelength Dependent Loss(dB)		≤0.3						
Operating Temperature(°C)		-40~+85						
Dimensions(mm) (Lx WxH)	Bare fiber type	40x4x4	40x4x4	40x4x4	55x7x4	55x7x4	80x20x6	100x40x6
	900um fiber type	55x7x4	55x7x4	55x7x4	60x12x4	80x20x6	100x40x6	N/A
	ABS Box	100X80X10	100X80X10	100X80X10	120X80X18	140X115X18	140X115X18	140X115X18

Note:

1. Specified without connectors
2. Add an additional 0.2dB loss including connectors

• Specifications:

Parameter		1X3	1X6	1X9 (70%: 3.75%)	1X12	1X24
Operating Wavelength(nm)		1260~1650				
Fiber Type		G657A or as customized				
Typical Insertion loss(dB)		6	9.4	2.2/16.3	12	16
Return Loss(dB)		≥55				
Directivity(dB)		≥55				
PDL(Max.)		0.2	0.3	0.3	0.3	0.3
Uniformity(Max.)		0.6	0.8	0.8	1.0	1.5
Wavelength Dependent Loss(dB)		≤0.3				
TDL(Max.)		0.5				
Operating Temperature(°C)		-40~+85				
Storage Temperature(°C)		-40~+85				
Dimensions (mm) (L xWxH)	Bare fiber	50x7x4	50x7x4	60x7x4	55x7x4	55x7x4
	900um fiber	55x7x4	55x7x4	60x7x4	55x7x4	55x7x4
	ABS Box	100x80x10	100x80x10	120x80x18	120x80x18	120x80x18

Note:

1. Specified without connectors
2. Add an additional 0.2dB loss including connectors

• Specifications:

Parameter	2x2	2x4	2x8	2x16	2x32	2x64	
Operating Wavelength(nm)	1260~1650						
Fiber Type	G657A or as customized						
Typical Insertion Loss(dB)	4.0	7.6	11.0	14.5	17.5	21.2	
Loss Uniformity(Max.)	0.8	1.5	1.5	2.0	2.5	2.5	
PDL(Max.)	0.2	0.2	0.4	0.4	0.4	0.4	
Return Loss(dB)	≥55						
Directivity(Db)	≥55						
Wavelength Dependent Loss(dB)	≤0.3						
Operating Temperature(°C)	-40~+85						
Storage Temperature(°C)	-40~+85						
Dimensions(m m) (Lx WxH)	Bare fiber	40x4x4	40x4x4	40x4x4	50x7x4	50x7x4	60x12x4
	900um fiber	60x7x4	60x7x4	60x7x4	60x12x4	80x20x6	100x40x6
	ABS Box	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	141x115x18

Note:

1. Specified without connectors
2. Add an additional 0.2dB loss including connectors

• Tips:

Due to the COVID-19, sorry that you and our team couldn't visit face to face with each other. In order to make the customers know us more, please visit our VR factory, it is just like you were really standing in our factory.

OPTICO Fiber Assemblies Production Line VR :<https://www.linked-reality.com/company/15555/en>