



PLC Splitter - Mini Type



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Overview

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. Optostar provides whole series of 1xN and 2xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE and GR-1221-CORE requirements.

Product 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

Technical Parameter

Specifications 1×N PLC Splitter							
Parameters	1×2	1×4	1×8	1×16	1×32	1×64	1×128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or customer specified						
Insertion Loss (dB)(P/S Grade)	3.8/4.0	7.1/7.3	10.2/10.5	13.5/13.7	16.5/16.9	20.5/21.0	23.8/24.2
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2.0	2.5
Polarization Dependent Loss (dB)	0.2	0.2	0.2	0.25	0.3	0.35	0.4
Return Loss(dB) (P/S Grade)	55/50	55/50	55/50	55/50	55/50	55/50	55/50
Directivity (dB)	55	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5	0.5	0.5	0.5
Temperature Stability (-40~85℃) (dB)	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Operating Temperature(℃)	-40~+85						
Storage Temperature(℃)	-40~+85						
Device Dimension (mm)	40×4×4	40×4×4	40×4×4	50×7×4	50×7×4	60×12×4	N/A
Module Dimension (mm)	100×80×10			120×80×18	141×115×18		
Mini-Module Dimension (mm)	50×7×4			60×12×4	80×20×6	100×40×6	N/A

Specifications 2×N PLC Splitter							
Parameters	2×2	2×4	2×8	2×16	2×32	2×64	2×128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or customer specified						
Insertion Loss (dB) P/S Grade)	3.9/4/2	7.3/7.6	10.5/11	14.4/14.6	17.4/17.9	21.0/21.5	24.5/25.0
Loss Uniformity (dB)	≤0.6	≤1.0	≤1.2	≤1.5	≤1.8	≤2.2	≤2.5
Polarization Dependent Loss (dB)	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.3	≤0.4
Return Loss(dB)(P/S Grade)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Directivity (dB)	55	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	≤0.3	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Fiber Length (m)	1.5(±0.1) or customer specified						
Temperature Stability (-40~85℃) (dB)	≤0.5						

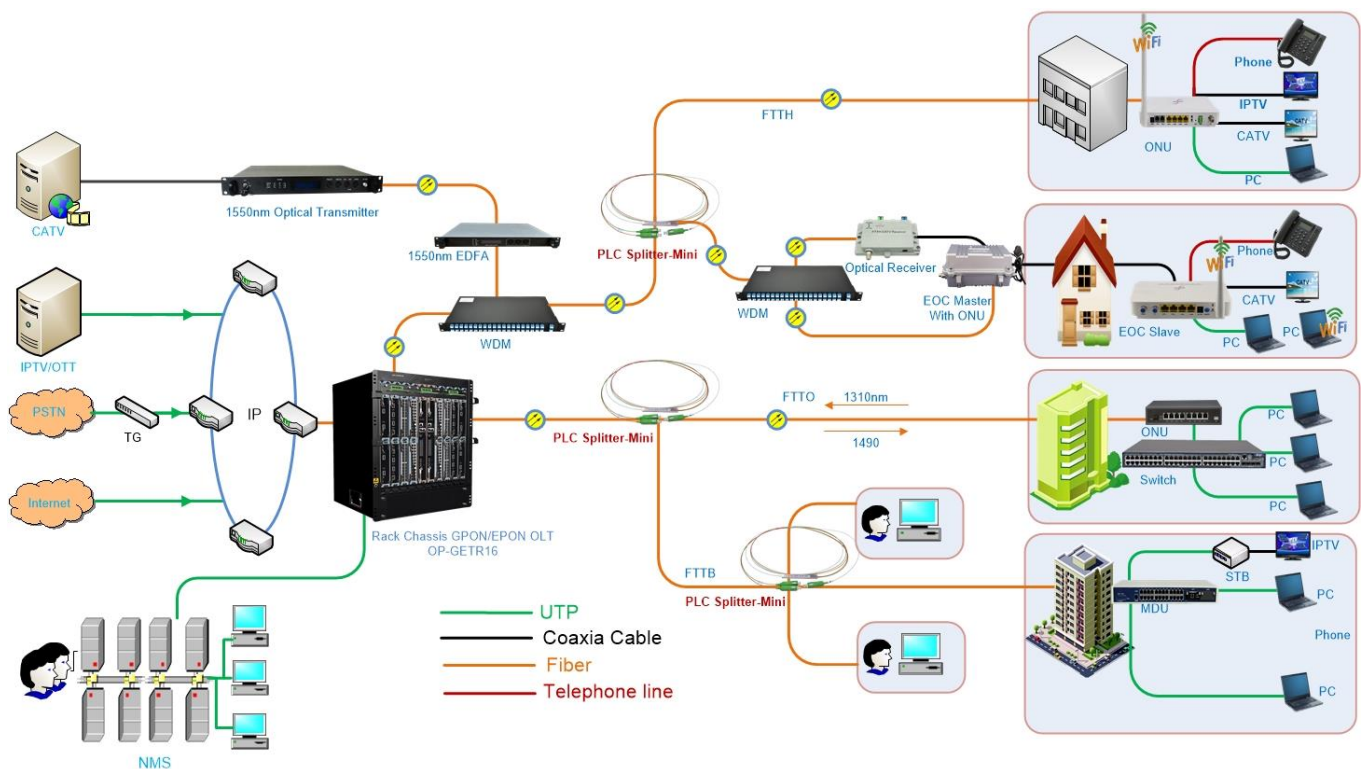
Operating Temperature(°C)	-20~+75
Storage Temperature(°C)	-40~+85
Maximum Power Handling (mW)	500

- 1、 The above parameters were measured at room temperature, but not including connectors data.
- 2、 Add an additional 0.2dB loss per connector, Return Loss≥55dB(APC), ≥50dB(UPC).

Bare fiber type											
Item	1×2	1×4	1×8	1×16	1×32	1×64	2×2	2×4	2×8	2×16	2×32
(L*W*H) (mm)	40*4*4		50*7*4			60*12*4	60*7*4			70*7*4	70*7*4

Mini type											
Item	1×2	1×4	1×8	1×16	1×32	1×64	2×2	2×4	2×8	2×16	2×32
(L*W*H) (mm)	60*7*4		60*12*4		80*20*6	100*40*6	60*7*4			80*12*4	100*20*6

Application



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

Order Information

Description
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<p>Note:</p> <p>Port: 1x2,1x4,1x8,1x16,1x32,1x64,1x128,2x4,2x8,2x16, 2x32, 2x64, 2x128(Optional)</p> <p>Input Pitgail Style: Bare fiber,900um loose tube, 2.0mm Cable,3.0mm Cable (Optional)</p> <p>Input Connector: None,FC/APC,FC/PC,SC/APC,SC/PC,ST,LC,LC/APC,E2000,Special (Optional)</p> <p>Output Pitgail Style: Bare fiber,900um loose tube, 2.0mm Cable,3.0mm Cable (Optional)</p> <p>Fiber Length: 0.5m,1m,1.5m,2m,3m,4m,Special (Optional)</p> <p>Output Connector: None,FC/APC,FC/PC,SC/APC,SC/PC,ST,LC,LC/APC,E2000,Special (Optional)</p> <p>Package: Bare,Mini type, ABS box,Insert type,Pallet type,19"1U Rack,Special (Optional)</p>

Important Notice

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