

- Mini PLC Splitter module SC-APC SC-APC 1x64



Technical Parameter

Specifications 1×N PLC Splitter							
Parameters	1x2	1x4	1x8	1x16	1x32	1x64	1x128
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°C) (dB)	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Operating Temperature (°C)	-40~+85						
Storage Temperature (°C)	-40~+85						
Device Dimension (mm)	40x4x4	40x4x4	40x4x4	50x7x4	50x7x4	60x12x4	N/A
Module Dimension (mm)	100x80x10			120x80x18	141x115x18		
Mini-Module Dimension (mm)	50x7x4			60x12x4	80x20x6	100x40x6	N/A

Specifications 2×N PLC Splitter							
Parameters	2x2	2x4	2x8	2x16	2x32	2x64	2x128
Operating Wavelength (nm)	1260~1650						
Fiber Type	G657A1 or customer specified						
Insertion Loss (dB)(P/S Grade)	3.9/4/2	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)	≤0.6	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	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°C) (dB)	≤0.5	0.4	0.4	0.5	0.5	0.5	0.5
Fiber Length (m)	1.5(±0.1) or customer specified						
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).

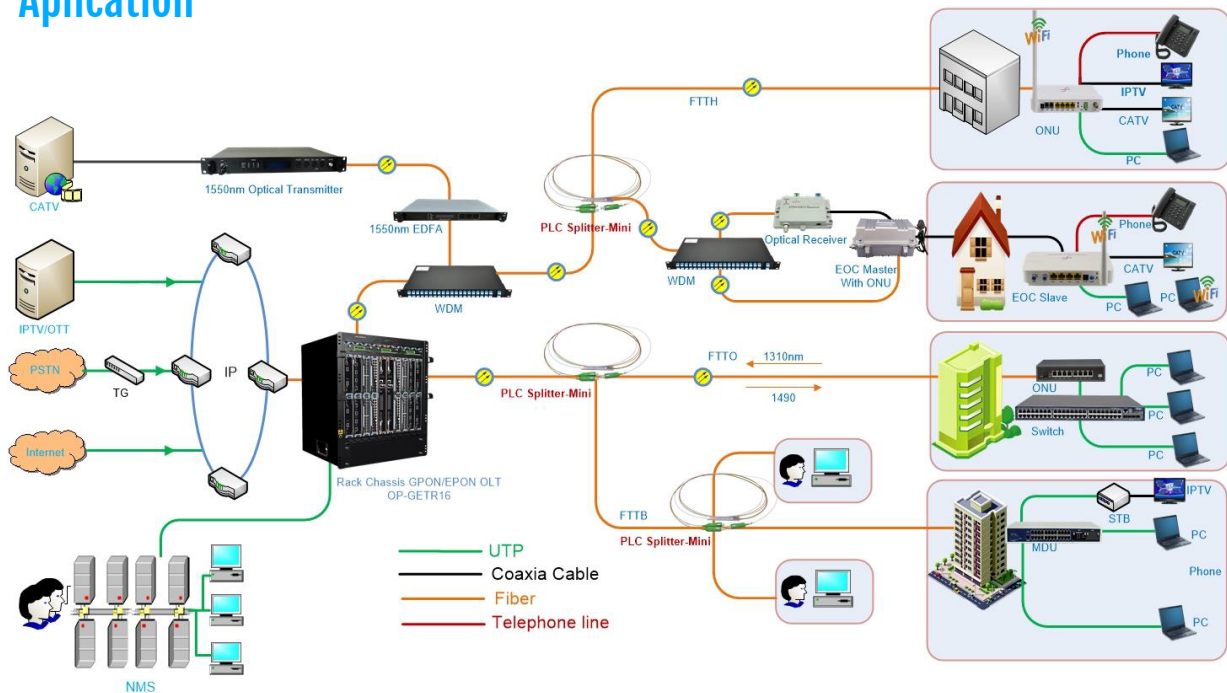
Bare fiber type

Item	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32
(L*W*H) (mm)	40*4*4		50*7*4		60*12*4		60*7*4			70*7*4	

Mini type

Item	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32
(L*W*H) (mm)	60*7*4		60*12*4		80*20*6		60*7*4			80*12*4	

Application



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

Description

PLC Splitter - Mini Type

Port: 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, 1x128, 2x4, 2x8, 2x16, 2x32, 2x64, 2x128 (Optional)

Input Pigtail Style: Bare fiber, 900um loose tube, 2.0mm Cable, 3.0mm Cable (Optional)

Input Connector: None, FC/APC, FC/PC, SC/APC, SC/PC, ST, LC, LC/APC, E2000, Special (Optional)

Output Pigtail Style: Bare fiber, 900um loose tube, 2.0mm Cable, 3.0mm Cable (Optional)

Fiber Length: 0.5m, 1m, 1.5m, 2m, 3m, 4m, Special (Optional)

Output Connector: None, FC/APC, FC/PC, SC/APC, SC/PC, ST, LC, LC/APC, E2000, Special (Optional)

Package: Bare, Mini type, ABS box, Insert type, Pallet type, 19" 1U Rack, Special (Optional)

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

Importante notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

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