

# Optical Splitter PLC Module

OSP-M

## Overview

This optical splitter module use Planer Lightwave Circuit (PLC) technology for split ratio 2, 4, 8, 16 and 32. The Optical splitter module is designed by standard of YD/T2000-2009, YD/T1117-2001. Optical splitter module is ready by flame retardant material box or plate packaging. Mainly suitable for cable points fiber box and wall mounted terminal box. Application for FTTX network, LAN/WAN or CATV network.



## 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℃to 85℃
- High Reliability and Stability



### Technical Specification 1×N Series

Parameters	1×4	1×8	1×16	1×32	1×64	1×64
Operation Wavelength (nm)	1260 - 1650					1310 ± 40 1490 ± 10 1550 ± 40
Insertion Loss (dB)	≤ 7.4	≤ 10.7	≤ 13.9	≤ 17.2	≤ 21.5	≤ 20.1
PDL	≤0.3	≤0.3	≤0.3	≤0.3	≤0.5	≤0.3
Uniformity of I.L	≤0.8	≤ 1.0	≤ 1.4	≤ 1.6	≤ 2.0	≤ 1.6
Return loss (dB)	≥ 55					
Directivity (dB)	≥ 55					
Working / Storage Temperature (℃)	-40 ~ + 85					



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Technical Specification 2×N Series						
Parameters	2×4	2×8	2×16	2×32	2×64	2×64
Operation Wavelength (nm)	1260 - 1650					1310 ± 40 1490 ± 10 1550 ± 40
Insertion Loss (dB)	≤ 7.6	≤ 11.0	≤ 14.8	≤ 17.9	≤ 21.5	≤ 20.1
PDL	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.5
Uniformity of I.L	≤ 0.8	≤ 1.0	≤ 1.4	≤ 1.4	≤ 1.6	≤ 2.0
Return Loss (dB)	≥ 55					
Directivity (dB)	≥ 55					
Working / Storage Temperature (°C)	-40 ~ + 85					

Operation Conditions	
Temperature	-40℃ -- 85℃
Humidity	93% at 40℃
Air Pressure	62kPa – 101kPa

Shipping Information	
Package Contents	Optical Splitter PLC Mini Type 1 unit
Package Dimensions(W*H*D)	It depends on the dimensions of the product.
Material	Plastic Box
Weight	It depends on the weight of the product.
Lead Time	10-15 working days normally



# Part Details

## a) OSP-M1



**Ratio:** 1×4.  
**Dimension:** 25×130×100 (mm).  
**Adapter:** SC.  
**SC connector:** Φ 2.0 mm.



**Ratio:** 1×8.  
**Dimension:** 25×130×100 (mm).  
**Adapter:** Duplex SC.  
**SC connector:** Φ 2.0 mm.



**Ratio:** 1 / 2×16.  
**Dimension:** 50×130×100 (mm).  
**Adapter:** SC.  
**SC connector:** Φ 2.0 mm.



**Ratio:** 1 / 2×32.  
**Dimension:** 50×267×100 (mm).  
**Adapter:** SC.  
**SC connector:** Φ 2.0 mm.



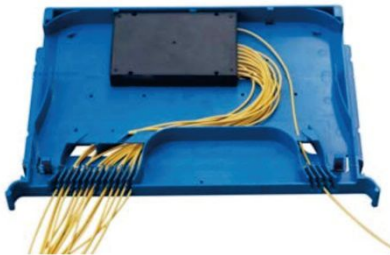
b) OSP-M2



**Ratio:** 1×16.,  
**Dimension:** 25×302×180 (L×W×D mm).,  
**Adapter:** FC SC.,  
**SC connector:** Φ 2.0 mm.,



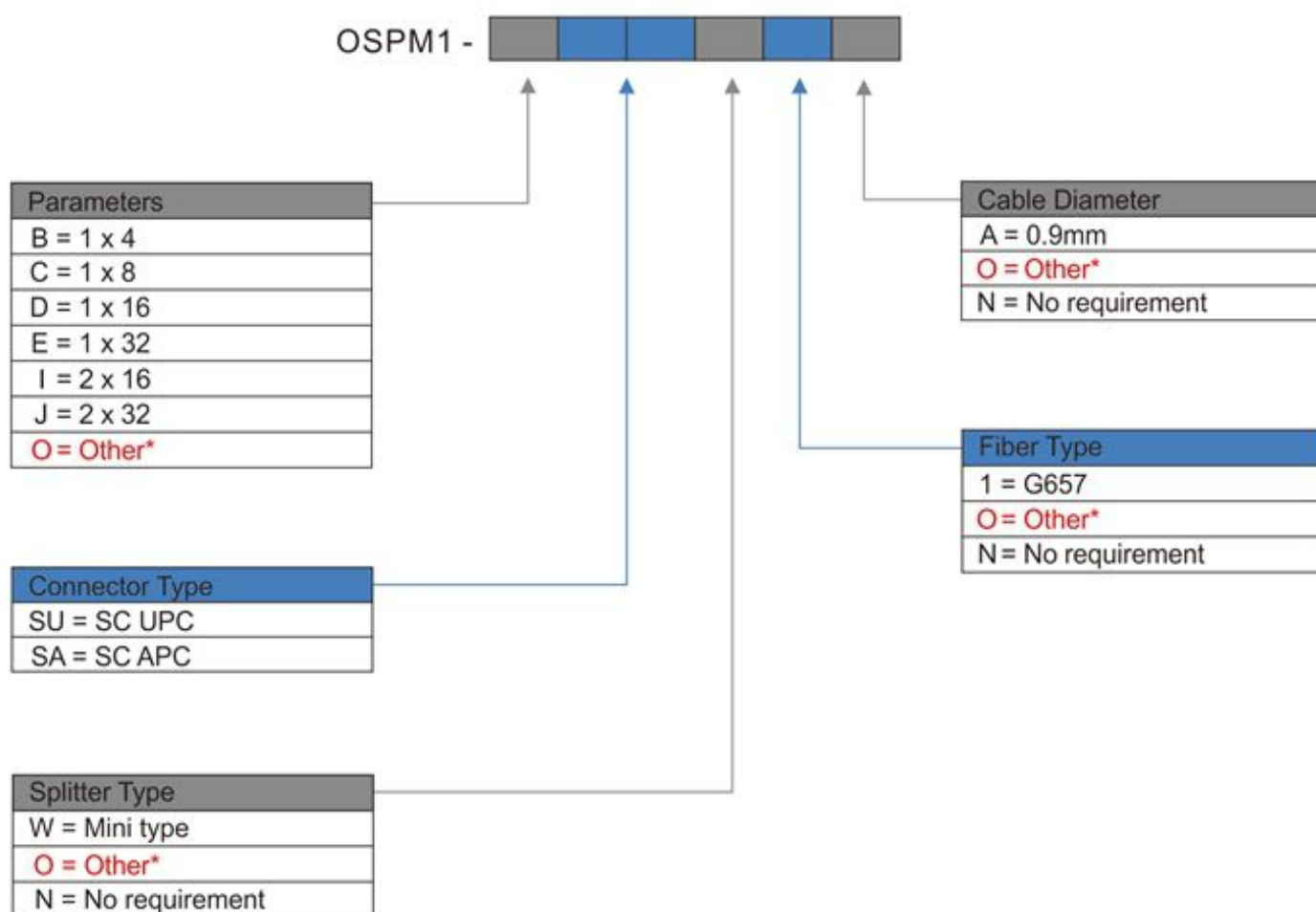
**Ratio:** 1×32.,  
**Dimension:** 50×302×180 (L×W×D mm).,  
**Adapter:** FC SC.,  
**SC connector:** Φ 2.0 mm.,



**Ratio:** Upon request.,  
**Dimension:** 25×304×205 (mm).,  
**Adapter:** N/A.,  
**SC connector:** Φ 2.0 mm.,



# Catalog Number



## Ordering Example:

OSPM1 - BSUW1A 1 x 4, SC UPC, Mini type, G657, 0.9mm Cable

**Note :** \*If the required type of any item is not on the relevant list, please use "O" or "OO" as the red cells indicate, and kindly state the required type in the description of PO.



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# Catalog Number

OSPM2 -

Parameters
Parameters
B = 1 x 4
C = 1 x 8
D = 1 x 16
E = 1 x 32
G = 2 x 4
H = 2 x 8
I = 2 x 16
J = 2 x 32
O = Other*

Connector Type
SU = SC UPC
SA = SC APC
FU = FC UPC
FA = FC APC
OO = Other*
NN = No requirement

Splitter Type
W = Mini type
H = Cassette type
O = Other*
N = No requirement

Cable Length
Enter the length required
N = No requirement

Cable Diameter
A = 0.9mm
C = 2.0mm
D = 3.0mm
O = Other*
N = No requirement

Fiber Type
1 = G657
O = Other*
N = No requirement

## Ordering Example:

OSPM2 - BSUW1A10 1 x 4, SC UPC, Mini type, G657, 0.9mm Cable, 10m Cable

**Note :** \*If the required type of any item is not on the relevant list, please use "O" or "OO" as the red cells indicate, and kindly state the required type in the description of PO.

