PLC Splitter Module

The Optical Power Splitter, one of the main products of our company, is a component used in FTTH to separately transmit the signals that are sent from the telephone office or the cable stations through a single optical cable to multiple membership locations (apartments and houses), thereby constituting a key component of the optical membership network. The capacity of PPI to manufacture such products, ranging from the chip to the module in production scale quantities is recognized in Korea and abroad as being on the top rank worldwide.

Applications

CATV, FTTH, ROADM, LAN, WAN systems.
Signal,network monitoring, live line monitoring system.

Feature

Compact size (PLC) type low insertion loss, low PDL
Wide range uniformity stability

Specifications

Symmetric type : 1 ×N Asymmetric type : 1 ×3, 1 ×6, 1 ×12, 1 ×24, etc.

Type	Wavelength Range (nm)	IL max (dB)	IL Uni (dB)	PDL (dB)	Dimensions (mm)		
					Width	Height	Length
1x2	1260 ~ 1650	≤3.8	≤0.6	≤0.2	4	4	40
1x2L					7	4	55
1x3		≤6.2	≤0.6	≤0.2	4	4	40
1x4		≤7.5	≤0.6	≤0.2	4	4	40
1x4L					7	4	55
1x6		≤9.3	≤0.8	≤0.2	4	4	40
1x8		≤10.5	≤0.8	≤0.2	4	4	40
1x8L					7	4	55
1x9		≤11.4	≤1.0	≤0.3	7	4	55
1x12		≤12.3	≤1.0	≤0.3	7	4	55
1x16		≤13.6	≤1.0	≤0.3	7	4	55
1x16L					12	4	60
1x24		≤16.0	≤1.3	≤0.3	7	4	55
1x32		≤17.0	≤1.3	≤0.3	7	4	55
1x64		≤20.4	≤2.0	≤0.3	12	4	60

ITEM	Unit	Specification
Directivity	dB	≥55
Return loss	dB	≥55
Fiber type	-	SMF-28e(or equivalent)
Storage temperature	℃	-40~+85
Operating temperature	℃	-40~+85

*All products available Customized Specifications.

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PLC Splitter Module

Specifications Symmetric type : 2 ×N

Type	Wavelength Range (nm)	IL max (dB)	IL Uni (dB)	PDL (dB)	Dimensions (mm)		
					Width	Height	Length
2x2	1260 ~ 1650	≤4.2	≤0.8	≤0.3	7	4	55
2x4		≤7.6	≤1.4	≤0.3	7	4	55
2x8		≤11.0	≤1.5	≤0.3	7	4	55
2x16		≤14.5	≤2.0	≤0.3	7	4	60
2x16L					12	4	60
2x32		≤17.5	≤2.5	≤0.3	7	4	60
2x64		≤21.0	≤3.0	≤0.4	12	4	65

ITEM	Unit	Specification
Directivity	dB	≥55
Return loss	dB	≥55
Fiber type	-	SMF-28e(or equivalent)
Storage temperature	℃	-40~+85
Operating temperature	℃	-40~+85

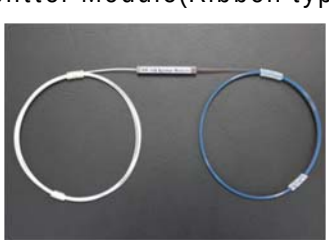
Ordering Information

PPI PS-

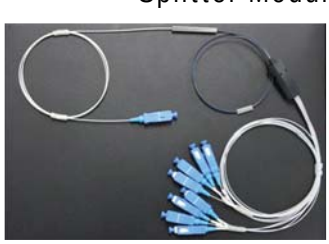
1	X	XX	XX	X	XX	X
Input Channel 1: 1Channel 2: 2Channel	Input Fiber type B: Bare Fiber T: 900㎛	Input Fiber Length XX: Customized ex)12:1.2m	Output channel XX:Customized ex) 02~64ch	Output Fiber Length R: Ribbon Fiber L: 900㎛ Loose tube	Output Fiber Length XX: Customized ex)12:1.2m	Connector Type 0: None 1:SC/APC 2:SC/PC 3.FC/APC 4.FC/PC 5.Customized

Feature

Splitter Module(Ribbon type)



Splitter Module(Connector type)



Fan-out type

Blockless type

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PLC Splitter Module

Specifications

Special type : Nx(1x2)ch. Array Tap Splitter (1 ≤N ≤8)

Ratio (%)	Wavelength Range (nm)	Mainport IL max. (dB)	Tap port IL max. (dB)	ILUni. (dB)	PDL (dB)
50:50	1260 ~ 1650	<3.8	<3.8	< 1.0	< 0.2
70:30		<3.0	5~7	<1.0	< 0.2
80:20		<2.6	7~9	<1.0	< 0.2
90:10		<1.8	9~12	<1.0	< 0.2
95:05		<1.2	12~15	<1.0	< 0.2
98:02		<1.0	15~18	<1.0	< 0.2

1 ×2 tap
4 ×(1 ×2 tap)
8 ×(1 ×2tap)

Type	Wavelength Range (nm)	IL max. (dB)	WDL. (dB)	IL Uni. (dB)	PDL (dB)	Dimensions (mm)		
						Width	Height	Length
1x2	1260 ~ 1650	≤3.8	≤1.0	≤0.6	≤0.2	4	4	40
4x(1x2)		≤4.1	≤1.0	≤0.8	≤0.3	7	4	55
8x(1x2)		≤4.3	≤1.0	≤1.0	≤0.3	7	4	55
16x(1x2)		≤4.5	≤1.0	≤1.0	≤0.3	7	4	55

ITEM	Unit	Specification
Directivity	dB	≥55
Return loss	dB	≥55
Fiber type	-	SMF-28e(or equivalent)
Storage temperature	℃	-40~+85
Operating temperature	℃	-40~+85

Fiber Distribution Frame (FDF)

Fiber Distribution Frame (FDF) type: Rack type, Round Rack type

Feature

FDF - 1U

FDF - 2U

FDF - 3U

FDF - 2U Round

OFD A-1

OFD A-2

Specifications

Model	Dimension (W x L x H)	Remark
FDF-1U(12C,24C)	480 x 300 x 44.4	Rack Mount
FDF-2U(48C)	480 x 300 x 88.8	Rack Mount
FDF-3U(72C)	480 x 300 x 133.2	Rack Mount
FDF-1U(24C)	480x310x44.4	Round Rack Mount
FDF-2U(48C)	480 x 310 x 88.5	Round Rack Mount High Power Splitter Module
FDF A-1(24C)	480x310x44.4	Swing Door
FDF A-2(12C, 24C)	480x310x44.4	Drawer Door

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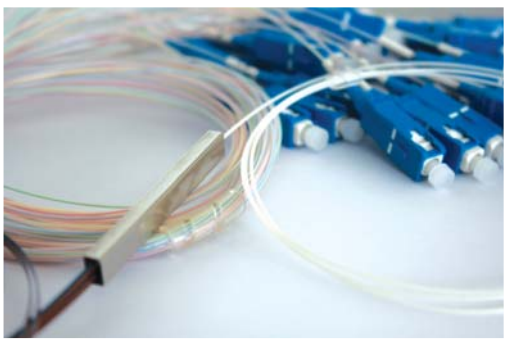
High Power Splitter Module

Feature

Low Insertion Loss, Low PDL



Applications

FTTH, FTTB, FTTC
PON (Passive Optical Network)System

Specifications

Symmetric type : 1xN , 2xN Asymmetric type : 1x3, 1x6, 1x9, 1x12, 1x24, etc.

Type	Wavelength Range (nm)	IL max (dB)	IL Uni (dB)	PDL (dB)	Dimensions (mm)		
					Width	Height	Length
1x2	1260 ~ 1650	≤4.3	≤0.6	≤0.2	4	4	40
1x2L					7	4	55
1x3		≤6.7	≤0.6	≤0.2	4	4	40
1x4		≤8.0	≤0.6	≤0.2	4	4	40
1x4L					7	4	55
1x6		≤9.8	≤0.8	≤0.2	4	4	40
1x8		≤11.0	≤0.8	≤0.2	4	4	40
1x8L					7	4	55
1x9		≤11.9	≤1.0	≤0.3	7	4	55
1x12		≤12.8	≤1.0	≤0.3	7	4	55
1x16		≤14.1	≤1.0	≤0.3	7	4	55
1x16L					12	4	60
1x24		≤16.5	≤1.3	≤0.3	7	4	55
1x32		≤17.5	≤1.3	≤0.3	7	4	55
1x64		≤20.9	≤2.0	≤0.3	15	4	60
2x2		≤4.7	≤1.2	≤0.3	7	4	55
2x4		≤8.1	≤1.4	≤0.3	7	4	55
2x8		≤11.5	≤1.5	≤0.3	7	4	55
2x16		≤15.0	≤2.0	≤0.3	7	4	60
2x16L					12	4	60
2X32		≤18.0	≤2.5	≤0.3	7	4	60
2X64		≤21.5	≤3.0	≤0.4	15	4	70

ITEM	Unit	Specification
Directivity	dB	≥55
Return loss	dB	≥55
Fiber type	-	SMF-28e(or equivalent)
Storage temperature	℃	-40~+85
Operating temperature	℃	-40~+85
Max Input Power	W	1
	dBm	+30

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