

PLC Splitter

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

Applications

- FTTX system
- PON network
- CATV link
- Optical signal distribution

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. FiberMart Inc. provides whole series of 1xN and 2xN splitter products that are tailored for specific applications.

Performance Specifications: 1xN PLC Splitter

Parameter	1x2	1x4	1x8	1x16	1x32	1x64	1x128
Operating Wavelength(nm)	1260 ~ 1650						
Fiber Type	G657A1 or Specify						
Insertion Loss (dB) (P/S Grade)	3.8/4.0	7.2/7.4	10.3/10.7	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	≤1.0	≤1.5	≤2.0	≤2.5
PDL(dB)	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.4	≤0.4
Return Loss (dB)	≥50	≥50	≥50	≥50	≥50	≥50	≥50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.5	≤0.5	≤0.5	≤0.5	≤1.0	≤1.0	≤1.0
Fiber Length (m)	1m or Specify						
Temperature Stability(-20~+80°C)(dB)	≤ 0.5						
Operating Temperature (°C)	-20 ~ +80						
Storage Temperature (°C)	-40 ~ +80						
Maximum Power Handling (mW)	500						

Performance Specifications: 2xN PLC Splitter

Parameter	2x2	2x4	2x8	2x16	2x32	2x64	2x128
Operating Wavelength(nm)	1260 ~ 1650						
Fiber Type	G657A1 or Specify						
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
PDL(dB)	≤0.2	≤0.2	≤0.2	≤0.3	≤0.3	≤0.4	≤0.4
Return Loss (dB)	≥50	≥50	≥50	≥50	≥50	≥50	≥50
Directivity (dB)	≥55	≥55	≥55	≥55	≥55	≥55	≥55
Wavelength Dependent Loss (dB)	≤0.5	≤0.5	≤0.5	≤0.5	≤1.0	≤1.0	≤1.0
Fiber Length (m)	1m or Specify						
Temperature Stability(-20~+80°C)(dB)	≤ 0.5						
Operating Temperature (°C)	-20 ~ +80						
Storage Temperature (°C)	-40 ~ +80						
Maximum Power Handling (mW)	500						

Specified without connectors.
Add an additional 0.2dB loss per connector

Ordering Information

Port	Package	Fiber Diameter	Fiber Length	Connector
0102 = 1x2 0104 = 1x4 0108 = 1x8 0116 = 1x16 0132 = 1x32 0164 = 1x64 1128 = 1x128 0202 = 2x2 0204 = 2x4 0208 = 2x8 0216 = 2x16 0232 = 2x32 0264 = 2x64 2128 = 2x128	1=Bare 2=Blockless 3=ABS Box Module 4=Insert Box 5=Pallet Type 6=Rackmount S=Specify	0=250μm 1=900μm 2=2.0mm 3=3.0mm	0=0.5m 1=1.0m 2=1.5m 3=2.0m 4=3.0m 5=4.0m S=Specify	0=None 1=FC/APC 2=FC/UPC 3=SC/APC 4=SC/UPC 5=LC/APC 6=LC/UPC 7=ST S=Specify

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Products series:



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		50*4*4		60*7*4	



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	100*40*6		60*7*4		80*12*4	100*20*6



Item	1x2	1x4	1x8	1x16	1x32	1x64	2X2	2X4	2X8	2X16	2X32
(L*W*H) mm		100*80*10		120*80*18		140*114*18		100*80*10		120*80*18	
Locating hole (L*W)mm		70*74		80*74		100*106		70*74		80*74	



Item	1x2	1x4	1x8	1x16	1x32	1x64	2X2	2X4	2X8	2X16	2X32
(L*W*H) mm		130*100*25		130*100*50	130*100*102	130*100*205		130*100*25		130*100*50	130*100*102