

PL Splitter Mini Module

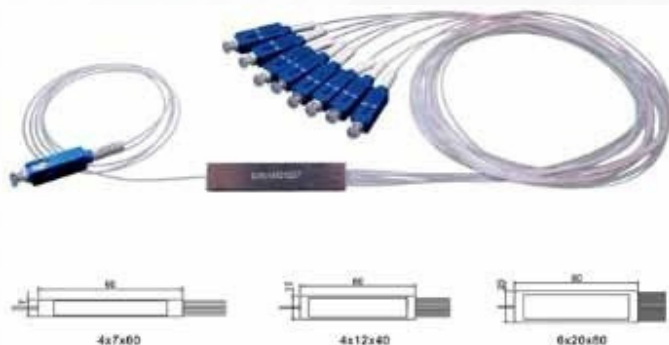
Description Planar lightwave circuit (PLC) splitter is based on using silica optical waveguide technology. It provides a low cost light distribution solution with small form factor and high reliability. The PLC devices have high performance in terms of low insertion loss, low PDL, high return loss, and excellent uniformity over a wide wavelength range from 1260nm to 1650nm and working in temperature from -40oC to +85oC. The PLC splitters have standard configurations of 1x4, 1x8, 1x16, 1x32, 1x64, 2x8, 2x16, 2x32, 2x64. All products are compliant with Telcordia 1209 and 1221. The PLC splitter mini module is designed for 0.9mm fibers input and 0.9mm output without fanout employed.

Features

Low insertion loss and low PDL High reliability Wide wavelength rang Large operating temperature Compact design

Applications

FTTx system
Wan Lan and Access Network CATV network Other application in fiber optic system



Packaging Dimension (mm)

PLC Type	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Bare Fiber	4x4x40	4x4x40	4x4x40	4x7x50	4x7x50	4x12x60	4x4x55	4x4x55	4x4x55	4x7x60	4x7x60	/
Mini module	4x4x55	4x7x60	4x7x60	4x12x60	6x20x80	6x40x100	4x12x60	4x12x60	4x12x60	4x12x60	6x20x80	/
Module	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	141x115x18	100x80x10	100x80x10	100x80x10	120x80x18	120x80x18	141x115x18

Order Information

Channel	Type	Input Conn	Input length	2-3m 3-	Output
XXX	XXXX	X 0- None	XOutput	customized 4-	length
102-1x2	MLA1-bare	1-SCUPC 3- 4-	Conn X 1-	x-SCUPC SCAPC	X 1-1-1m 2-
104-1x4	MLA2-	LCAPC 5-FC 6-	1m 2-2m 3-	LCUPC	2m 3-X-
108-1x8	fanout	X- 2-SCAPC	3m	LCAPC 5-FC 6-X-	
116-1x16	module	LCUPC	customized	FCAPC Customized	
132-1x32		FCAPC		0-None	
164-1x64		Customized			
204-2x4	MLA3-mini				
208-2x8	module				
216-2x16					
232-2x32	MLA4-box				
Sample: MLA3-	module				
1321113 264-2x64					

Specifications (not including of connector loss)

Parameter		Specifications											
Wavelength(nm)		1260-1650											
Splitter Type		1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Insertion Loss(dB)	Typical	3.6	6.8	10.0	13.0	16.0	19.5	4.0	7.0	10.5	13.5	16.5	20.5
	Max(S)	3.8	7.1	10.2	13.5	16.5	20.5	4.1	7.4	10.8	14.3	17.3	20.7
	Max(P)	4.0	7.3	10.5	13.7	16.8	21.0	4.3	7.6	11.0	14.5	17.5	21.5
Uniformity(dB)	Typical	0.4	0.5	0.5	1.0	1.0	2.5	0.6	0.8	1.0	1.5	2.0	2.0
	Max	0.6	0.6	0.8	1.2	1.5	2.5	0.8	0.8	1.5	2.0	2.5	2.5
PDL(dB)	Typical	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
	Max	0.15	0.15	0.25	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.4
Wavelength dependent Loss(dB)	Typical	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2
	Max	0.2	0.2	0.3	0.5	0.5	0.5	0.2	0.2	0.3	0.5	0.5	0.5
Temperature dependent loss(dB)	Typical	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Directivity(dB)	Min	55											
Return Loss	Min	50											
Operating Temp(°C)		-40 to +85											
Storage Temp(°C)		-40 to +85											
Fiber type		ITU G652D/G657A											

Specifications (including of connector loss)

Parameter		Specifications											
Wavelength(nm)		1260-1650											
Splitter Type		1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Insertion Loss(dB)	Typical	3.9	7.1	10.3	13.3	16.3	19.8	4.3	7.3	10.8	13.8	16.8	20.8
	Max(P)	4.1	7.4	10.5	13.8	16.8	20.8	4.4	7.7	11.1	14.6	17.6	21.0
	Max(S)	4.3	7.6	10.8	14.0	17.0	21.3	4.6	7.9	11.3	14.8	17.8	21.8
Uniformity(dB)	Typical	0.4	0.5	0.5	1.0	1.0	2.5	0.6	0.8	1.0	1.5	2.0	2.0
	Max	0.6	0.6	0.8	1.2	1.5	2.5	0.8	0.8	1.5	2.0	2.5	2.5
PDL(dB)	Typical	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
	Max	0.15	0.15	0.25	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.4
Wavelength dependent Loss(dB)	Typical	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2
	Max	0.2	0.2	0.3	0.5	0.5	0.5	0.2	0.2	0.3	0.5	0.5	0.5
Temperature dependent loss(dB)	Typical	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Directivity(dB)	Min	55											
Return Loss	Min	50											
Operating Temp(°C)		-40 to +85											
Storage Temp(°C)		-40 to +85											
Fiber type		ITU G652D/G657A											