

## Mini Optic Splitter 1 Input 2 Output 0.9 mm Fiber SC/APC

### DESCRIPTION

Planar light-wave circuit splitter (PLC Splitter) is a type of optical power management device that is fabricated using silica optical waveguide technology. It is used to split a fiber optic beam into several beams at a certain splitting ratio. It is an important passive device in the passive optical network.

Mini PLC Splitter features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in FTTx, PON, GPON, XGS-PON, and NG-PON networks to realize optical signal power splitting as a low-cost solution. Abalone offers 1x4 PLC Splitters in multiple packaging options. All products meet GR-1209-CORE and GR-1221-CORE requirements.



### FEATURES

- Good uniformity and low insertion loss
- Low polarization dependent loss
- Excellent environmental stability
- Excellent mechanical construction
- Compact design, suitable for installation in optical equipment
- Wide operating temperature: -40~85 °C
- High reliability and stability

### APPLICATIONS

- FTTx (FTTB, FTTH, FTTC)
- Passive optical networks (PON)
- Local area networks (LAN)
- CATV systems
- Test equipments

### SPECIFICATIONS

Input x Output Port Number			1x2	1x4	1x8	1x16	1x32	1x64	
Optical Fiber Diameter	um	9/125							
Operating Wavelength	nm	1260 - 1650							
Insertion Loss (include PDL)	Typical	dB	≤3.6	≤7.0	≤10.3	≤13.6	≤16.6	≤20.1	
	Max	dB	4	7.1	10.5	13.7	16.9	21	
Uniformity' Max	dB		0.5	0.7	1	1.5	2	2	
PDL Max	dB		0.3	0.3	0.3	0.3	0.3	0.5	
Return Loss	dB		≥55	≥55	≥55	>55	≥55	≥55	
Directivity'	dB		≥55	≥55	≥55	≥55	≥ 55	≥55	
Output Fiber Type			4-fiber ribbonx1	4-fiber ribbonx2	8-fiber ribbonx2	8-fiber ribbonx4	8-fiber ribbonx8		
Case Size (For bare Fiber)	mm		40(L)x4(W)x4(H)		50(L)x7(W)x4(H)		60()x12M) x4(H)		
Case Size* (For 0.9 Loose Tube)	mm		60(L)x7(W)x4(H)		60(L)x20(W) x4(H)	80(L)x20(W) x6(H)	100(L)x40(W) x6(H)		
Operation Temperature	°C		-40~ 85						
Characteristics Are Characteristics without connectors under room temperature at 1310nm/1550 nm ,									

## Mini Optic Splitter 1 Input 2 Output 0.9 mm Fiber SC/APC

### ORDERING INFORMATION

1	2	3	4	5	6	7	8	9
Category	Ratio	Package	Input Diameter	Output Diameter	Input Connector	Output Connector	Input Length	Output Length
M	0=1*2	0=Steel Pipe	0=0.25mm	0=0.25mm	0=LC/UPC	0=LC/UPC	0=0~1m	0=0~1m
	2=1*4	1=Cassette	1=0.9mm	1=0.9mm	1= SC/UPC	1= SC/UPC	1=1~1.5m	1=1~1.5m
	3=1*8	2=Insert Type	2=1.6mm	2=1.6mm	2= FC/UPC	2= FC/UPC	2=1.5~2m	2=1.5~2m
	4=1*16		3=2.0mm	3=2.0mm	3= ST/UPC	3= ST/UPC	3=2~2.5m	3=2~2.5m
	5=1*32		4=3.0mm	4=3.0mm	4= LC/APC	4= LC/APC	4=3~3.5m	4=3~3.5m
	6=1*64				5= SC/APC	5= SC/APC		
	7=2*8				6= FC/APC	6= FC/APC		
	8=2*16				7=ST /APC	7=ST /APC		
	9=2*32				8=SC/PC	8=SC/PC		
	Y=Others				9=LC/PC	9=LC/PC		
					N=None	N=None		