

# 1x2(2x2) Compact Single Mode Broadband Splitter



## Product Features

- Very Compact Size
- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

## Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications		Splitting Ratio: 50:50	
Parameter	Unit	Premium	A grade
Port Configuration		1x2 or 2x2	
Bandwidth	nm	±40	
Insertion Loss	Max. dB	3.4	3.7
Excess Loss	Typ. dB	0.1	0.15
Uniformity	Max. dB	0.6	1.0
PDL	Max. dB	0.1	0.15
Return Loss*	Min. dB	50	45
Operating power	Max. W	5	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S4	Ø3x35: for bare fiber
		S6	Ø3x54: for 0.9mm loose tube

\* >60dB on request for 1x2 structure.

Test at central wavelength only.

## Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.7	3.7
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.2	7.5	1.3	8.0
90:10	0.6	10.8	0.8	12
95:5	0.4	14.6	0.5	18.4
96:4	0.35	16.0	0.45	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.25	19.0	0.35	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

## Ordering Information

C	B	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
1=1625nm	1=1x2	05=99.5:0.5	P=Premium	3=S4	1=SMF-28e	S=250um	0=0.5m	0=None		
2=1590nm	2=2x2	99=99:1	A=A grade	5=S6		bare fiber	1=0.75m	1=FC/PC		
3=1570nm		98=98:2				M=0.9mm	2=1.0m	2=FC/SPC		
4=1550nm		97=97:3				loose tube	S=Specify	3=FC/APC		
5=1480nm		96=96:4						4=SC/SPC		
6=1475nm		95=95:5						5=SC/APC		
7=1310nm		90=90:10						6=ST		
P=2000nm		80=80:20						7=FC/U/PC		
S=Specify		70=70:30						8=SC/U/PC		
		60=60:40						9=MU		
		50=50:50						A=L/PC		
								B=SC/PC		
								C=L/PC		
								D=L/PC		

Note: 1. Central Wavelength can be customized for different applications.  
2. All specifications are before connectors and are subject to change without notice.