

# 1x2(2x2) Compact Single Mode Narrowband 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	±20	
Insertion Loss	Max.	3.5	3.7
Excess Loss	Typ.	0.1	0.15
Uniformity	Max.	0.6	1.0
PDL	Max.	0.1	0.15
Return Loss*	Min.	55	50
Operating power	Max.	5 W	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S1	Ø2.4x25 for bare fiber
		S3	Ø3x30 for bare fiber
		S5 or S6	Ø3x40 or Ø3x54 for 0.9mm loose tube

\*Test at central wavelength only. There would be an unused termination port around 20cm for 1x2 version.

## 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	3.5	3.5	3.7	3.7
60:40	2.7	4.5	2.8	4.8
70:30	2.0	5.8	2.0	6.1
80:20	1.25	7.7	1.3	8.0
90:10	0.7	11.2	0.8	12
95:5	0.45	14.6	0.5	18.4
96:4	0.38	16.0	0.45	19.0
97:3	0.35	17.5	0.4	19.5
98:2	0.30	19.0	0.35	20.0
99:1	0.25	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

## Ordering Information

C	N	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
1=1625nm	1=1x2	05=99.5:0.5	P=Premium	0=S1	1=G652 or	S=250µm	0=0.5m	0=None		
2=1590nm	2=2x2	99=99:1	A=A grade	2=S3	Equivalent	bare fiber	1=0.75m	1=F C/PC		
3=1570nm		95=95:2		4=S6	5=990-20	M=0.9mm	2=1.0m	2=F C/SPC		
4=1550nm		97=97:3		5=S8	6=SM1060	loose tube	3=1.5m	3=F C/APC		
5=1480nm		96=96:4			7=SM1080 FLEX		4=2.0m	4=SC/SPC		
6=1475nm		95=95:5			8=990-16		S=Specify	5=SC/APC		
7=1310nm		90=90:10			9=SM780			6=ST		
8=1064nm		80=80:20			H=SM1950			7=F C/U/PC		
R=1030nm		70=70:30			L=Large mode			8=SC/U/PC		
9=980nm		60=60:40			area fiber			9=MU		
A=850nm		50=50:50						A= LC/PC		
K=830nm		...						B= SC/PC		
L=780nm								C=LC/U/PC		
P=2000nm								D=LC/APC		
S=Specify										

Note: 1. Central Wavelength can be customized for different applications.  
 2. All specifications are before connectors and are subject to change without notice.  
 3. All data are measured at central wavelength at room temperature.