

# 1x2(2x2) Single Mode Narrowband Splitter



## Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

## Product Applications

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

Specifications		Splitting Ratio: 50:50			
Parameter	Unit	Premium	A grade	Premium	A grade
Port Configuration		1x2 or 2x2			
Central Wavelength	nm	780~2000		532~685	
Bandwidth	nm	±10		±10	
Insertion Loss	Max. dB	3.4	3.6	3.6	3.8
Excess Loss	Typ. dB	0.07	0.1	0.1	0.2
Uniformity	Max. dB	0.6	1.0	1.0	1.4
PDL	Max. dB	0.1	0.15	0.15	0.2
Return Loss*	Min. dB	55	50	55	50
Operating power	Max. W	5			
Operating Temperature	°C	-40 to +85			
Storage Temperature	°C	-50 to +85			
Package Type	mm	S5 or S6	Ø3x40 or Ø3x54: for bare fiber		
		S8	Ø3x70: for 0.9mm loose tube		
		M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

\*Test at central wavelength only. There would be a high return loss termination port around 30cm for 1x2 version.

## Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)							
	Premium (780~2000nm)		A grade (780~2000nm)		P grade (532~685nm)		A grade (532~685nm)	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6	3.6	3.6	3.8	3.8
60:40	2.5	4.4	2.8	4.8	2.8	4.8	3.1	5.0
70:30	1.8	5.6	2.0	6.1	2.0	6.1	2.4	6.2
80:20	1.2	7.5	1.3	8.0	1.3	8.0	1.8	8.0
90:10	0.6	10.8	0.8	12.0	0.8	12.0	1.3	11.0
95:5	0.4	14.6	0.5	18.4	0.5	18.4	1.1	14.5
96:4	0.3	16.0	0.4	19.0	0.4	19.0	1.05	15.0
97:3	0.3	17.5	0.4	19.5	0.4	19.5	0.95	16.5
98:2	0.2	19.0	0.3	20.0	0.3	20.0	0.9	18.0
99:1	0.2	21.5	0.3	22.0	0.3	22.0	0.9	21.0
99.5:0.5	0.2	23.0	0.3	24.0	0.3	24.0	0.9	24.0

## Ordering Information

S	N	S															
Wavelength	1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm F=685nm E=650nm B=633nm C=532nm P=2000nm S=Specify	Structure	1=1x2 2=2x2	Splitting Ratio	05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 ... 50=50:50	Grade	P=Premium A=A grade	Package	4=S5 5=S6 7=S8 D=M1	Fiber Type	1=G652 or Equivalent 5=980-20 6=H11060 7=H11060 FLEX 8=980-16 9=SM780 A=SM630 B=SM460 H=SM1950 L=Large mode area fiber	Pigtail	S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

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.