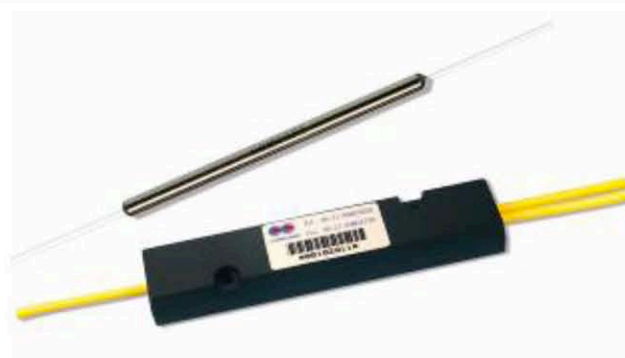


1x2(2x2) 405nm(450nm) Single Mode Narrowband Splitter



Product Features

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

Product Applications

- Optical Medical System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor
- Optogenetics Research

Specifications		Splitting Ratio: 50:50	
Parameter	Unit	Premium	Premium
Port Configuration		1x2 or 2x2	
Central Wavelength	nm	405	450
Bandwidth	nm	±10	
Insertion Loss	Max. dB	5.6	3.8
Excess Loss	Typ. dB	2.0	0.6
Uniformity	Max. dB	0.6	0.6
PDL	Max. dB	0.2	0.2
Return Loss*	Min. dB	55	55
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

All specifications are based on 1m fiber length, every 0.5m-length of fiber can cause 0.5dB IL additionally.

*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)			
	Output Port 1 (405nm)	Output Port 2 (405nm)	Output Port 1 (450nm)	Output Port 2 (450nm)
50:50	5.6	5.6	3.8	3.8
60:40	4.2	6.2	3.1	5.0
70:30	3.5	7.3	2.4	6.2
80:20	3.0	9.1	1.8	8.0
90:10	2.5	12.2	1.3	11.0
95:5	2.3	15.2	1.1	14.5
96:4	2.2	16.0	1.05	15.0
97:3	2.15	17.5	0.95	16.5
98:2	2.1	19.0	0.9	18.0
99:1	2.1	23.0	0.9	21.0
99.5:0.5	2.0	25.0	0.9	24.0

Ordering Information

S	N	S	Wavelength D=450nm Q=405nm 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	Package 4=S5 5=S6 7=S8 D=M1	Fiber Type B=SM460 C=SM405	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 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
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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.