

1x2(2x2) 50/125μm Multi-Mode Broadband Splitter (Mixer)



Product Features

- Low Insertion Loss
- High Directivity
- Telcordia 1221 Compliance
- Very Compact Size

Product Applications

- Optical Communication System
- LAN
- Optical Sensor
- Access Network

Specifications			Splitting Ratio: 50:50					
Parameter	Unit	1x2 or 2x2						
Grade		U	P	A	U	P	A	
Central Wavelength	nm	2000, 1550, 1310			850			
Bandwidth	nm	±20						
Insertion Loss	Max.	dB	3.5	4.0	4.5	3.7	5.0	5.5
Excess Loss	Typ.	dB	0.3	0.7	1.0	0.6	0.8	1.0
Uniformity	Max.	dB	0.5	0.5	0.8	0.5	0.5	0.8
Return Loss*	Min.	dB	40					
Operating power	Max.	W	5					
Operating Temperature		°C	-40 to +85					
Storage Temperature		°C	-50 to +85					
Package Type	mm	S6	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.

Splitting Ratio & Insertion Loss Conversion Table for 2000, 1550, 1310 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)					
	Ultra-Premium		Premium		A grade	
	Output Port1	Output Port2	Output Port1	Output Port2	Output1	Output2
60:40	2.6	4.6	3.2	5.0	3.7	5.6
70:30	1.9	5.9	2.4	6.3	2.9	7.0
80:20	1.2	7.8	1.7	8.2	2.3	9.0
90:10	0.7	11.2	1.2	12	1.8	12.8
95:5	0.5	15	0.8	16	1.5	16.8

Splitting Ratio & Insertion Loss Conversion Table for 850 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)					
	Ultra-Premium		Premium		A grade	
	Output Port1	Output Port2	Output Port1	Output Port2	Output Port1	Output Port2
60:40	3.0	5.0	4.0	6.0	4.7	6.6
70:30	2.4	6.2	3.3	7.3	3.9	8.0
80:20	1.7	8.1	2.3	9.2	3.2	10.0
90:10	1.2	11.4	2.0	12.5	2.7	13.5
95:5	1.0	14.3	1.6	16.5	2.4	17.5

Ordering Information

M	B	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	1=1x2 2=2x2	95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	U=Ultra-Premium P=Premium A=A grade	5=S6 7=S8 D=M1	2=50/125μm	S=250 μm Bare fiber M=0.9mm Loose tube L=3mm Cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m S=Specify	0=None 1=FC/PC 2=FC/APC 3=FC/PC 4=SC/PC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=L/PC B=SC/PC C=L/UPC D=L/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. Measured under the stable mode condition with LED source.