

1x2(2x2) High Temperature Single Mode Narrowband Splitter



Product Features

- High Sustained Temperature
- Low PDL
- High Directivity
- Stable and Reliable

Product Applications

- Aerospace
- Petroleum Service Systems
- Military Applications
- Special Optical Network

Specifications			Splitting Ratio: 50:50	
Parameter	Unit		Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth	nm		±10	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.05	0.1
Return Loss*	Min.	dB	55	50
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +200	
Storage Temperature		°C	-50 to +200	
Package Type	mm	S6	Ø3x54: for bare fiber	
Operating Temperature		°C	+200 to +300	
Storage Temperature		°C	+200 to +300	
Fiber Type			High Temperature SMF	
Package Type	mm	M12	7.5x9x62: for bare fiber	

*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	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.1	7.4	1.3	8.0
90:10	0.6	10.8	0.8	12.0
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	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

H	T	S	N	S							
					Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Length	Connector
					4=1550nm	1=1x2	05=99.5:0.5	P=Premium	5=S6 with	0=0.5m	0=None
					7=1310nm	2=2x2	99=99.1	A=A grade	155µm bare	1=0.75m	1=FC/PC
					P=2000nm		98=98.2		fiber pigtail	2=1.0m	2=FC/SPC
					S=Specify		97=97.3		O=M12 with	3=1.5m	3=FC/APC
							96=96.4		155µm bare	4=2.0m	4=SC/SPC
							95=95.5		fiber pigtail	S=Specify	5=SC/APC
							...				6=ST
							50=50:50				7=FC/APC
											8=SC/APC
											9=MU
											A=LC/PC
											B=SC/PC
											C=LC/APC
											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.