1x2 (2x2) Ultra-High Reliability Single Mode Narrowband Splitter

Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Cable System
- Submarine Optical Amplifier
- Optical Communication System
- EDFA Module

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 +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54 : for bare fiber

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

Ultra-High Reliability Test

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

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
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	R	N	S										

Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length
1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm P=2000nm S=Specify	1=1x2 2=2x2	05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 50=50:50 ...	P=Premium A=A grade	5=S6	1=G652 or Equivalent 5=980-20 6=SM1060 7=SM1060 FLEX 8=980-16 H=SM1950 A=Large mode area fiber	S=250μm bare fiber	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

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