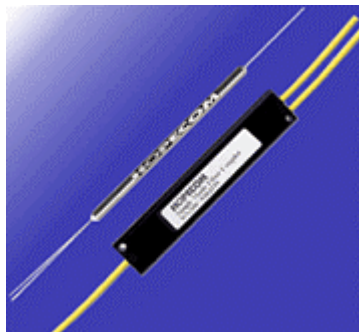


Singlemode Fiber Splitter

(1x2 or 2x2)

Applications

Fiber To The Home (FTTH)
 Local Loop
 Passive Optical Networks (PON)
 Fiber Optic CATV
 Fiber Optic Test Equipment
 Fiber Optic Sensing
 Local Area Networks (LAN)



Features

- I All fiber structure
- I Low Insertion Loss
- I High Reliability and Stability
- I Polarization Independent

Specifications

Item	Unit	Parameter		
Center Wavelength	nm	1310 or 1550		
Bandwidth	nm	±20		
Splitting Ratio	%	10 or 50		
Grade		p	a	b
Typical Insertion Loss	dB	0.07	0.12	0.17
Max. Polarization Dependent Loss	dB	0.10	0.15	0.20
Min. Directivity	dB	55	50	40
Max. Uniformity	dB	0.7	0.8	0.9
Max. Temperature Coefficient	dB/°C	0.002		
Typ. Flatness*	dB	0.4		
Operating Temperature	°C	-40~+85		
Storage Temperature	°C	-40~+85		
Package Dimensions	dB	C: ϕ 3.0x54(250um fiber) F: ϕ 3.5x72 (0.9mm loose tube) M: 100x19x9 O: 100x80x9 L: 120x80x18		

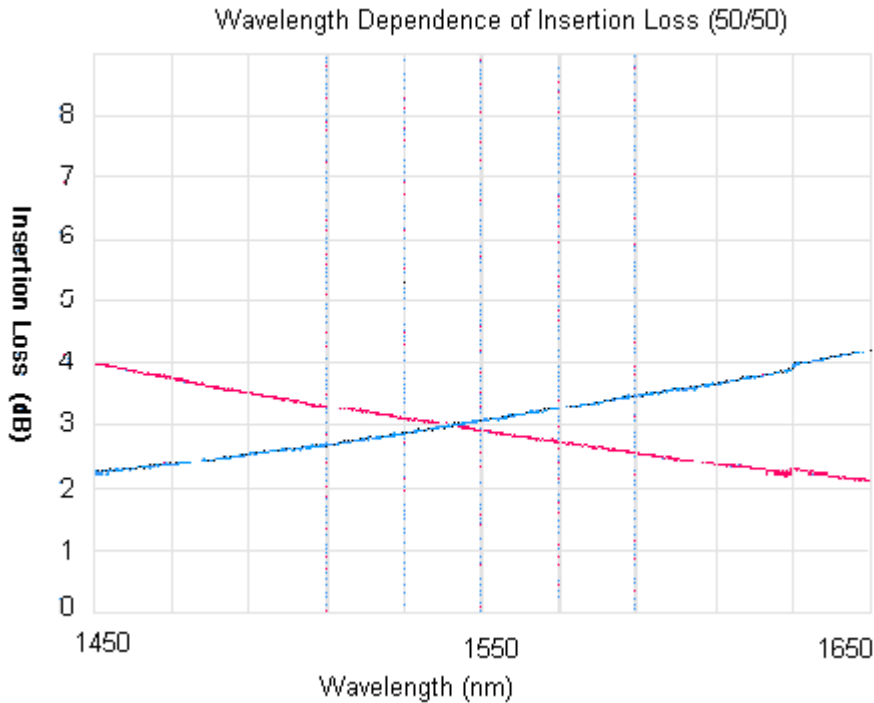
Dependence of Splitting Ratio and Insertion Loss

Splitting Ratio (%)	Typ. Insertion Loss (dB)			Max. Insertion Loss (dB)		
	p	a	b	p	a	b
10/90	10.1/0.5	10.1/0.6	10.2/0.7	11.0/0.7	11.2/0.8	11.5/0.9
15/85	8.3/0.8	8.4/0.9	8.4/0.9	9.1/0.9	9.2/1.0	9.4/1.1
20/80	7.1/1.1	7.1/1.1	7.2/1.2	7.8/1.2	7.9/1.3	8.1/1.4
25/75	6.1/1.3	6.2/1.4	6.2/1.5	6.7/1.5	6.8/1.6	7.0/1.7
30/70	5.3/1.6	5.4/1.7	5.4/1.8	5.8/1.8	5.9/1.9	6.1/2.0
35/65	4.7/2.0	4.7/2.0	4.8/2.1	5.2/2.2	5.3/2.3	5.4/2.4
40/60	4.1/2.3	4.1/2.4	4.2/2.4	4.5/2.6	4.6/2.7	4.7/2.8
45/55	3.6/2.7	3.6/2.8	3.7/2.8	3.9/3.0	4.0/3.1	4.1/3.2
50/50	3.1/3.1	3.1/3.1	3.2/3.2	3.4/3.4	3.5/3.5	3.6/3.6

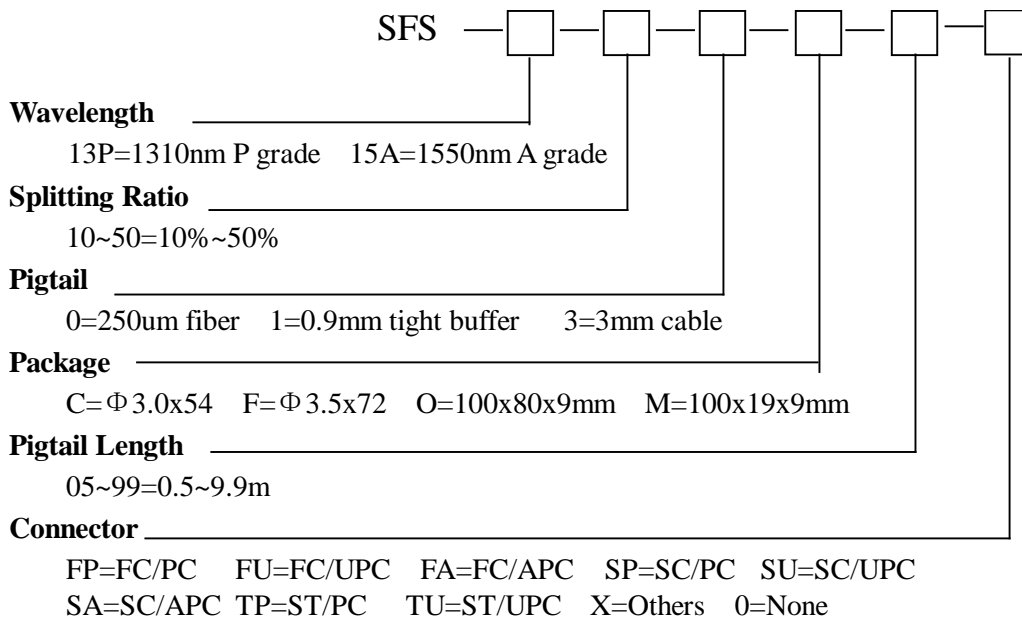
Qualification and Reliability Tests

Dry Heat	85 ± 2°C for 5000 hours
Damp Heat	75 ± 2°C, 90 ± 5%RH for 5000 hours
Low Temperature Storage	-40 ± 5°C for 5000 hours
Water Immersion	43 ± 2°C and PH5.5 ± 0.5 for 168 hours
Temperature Cycling	-40 ± 2°C to 85 ± 2°C for 500 cycles
Vibration	10Hz to 2000Hz, 1.52mm max. amplitude, 3 axes, 2 hours per axis
Impact Test	1.8m, 3 axes, 8 times per axis

Spectrum



Ordering Information



Note: The specification will change without notice.