

SFT 01x02 Singlemode Splitters

SFT-SWB Wavelength Independent **Dual Windows Wideband** SFT-S35

Description:

The OPTOKON SFT-SWB wavelength independent couplers/splitters are designed to transmit optical signals within the full CWDM wavelength spectrum. With its innovative Fused Technology Process, the SFT series couplers have proven to provide exceptional characteristics for all applications demanding critical performance. These ultra reliable devices feature low backreflection, low insertion loss, and high port isolation over wide temperature and wavelength ranges. The SFT couplers are designed to divide and/or combine different optical signals in optical fiber systems. Splitting ratios can be customer specified between 1%:99% and 50%:50%. Various types of pigtailing and connector terminations are available to meet your requirements. Available in a wide variety of packaging configurations

The OPTOKON SFT-S35 dual windows wideband series are operable in both 1310 nm and 1550 nm wavelength range.

Features:

Low insertion loss

High port isolation

Custom defined specifications

Environmentally stable

Wavelength independent

- full CWDM spectrum

Applications:

- **Telecommunications**
- Local area network
- FTTH PON
- **CATV**
- **Testing instruments**



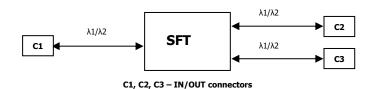
SFT-SWB-01x02-50-BFS-NC-NC

Technical specifications:

ITEM	Dual Window Wideband Couplers		
Operating Wavelength, nm	S35: 1310 ± 40 and 1550 ± 80 SWB: $1250 - 1650$ (CWDM wavelength range)		
Typical Excess Loss, dB	0.2		
Uniformity, dB (50:50)	≤ 0.8		
Thermal Stability, dB (peak-peak)	< 0.2		
PDL, dB (50:50 coupling ratio)	< 0.15		
Port Configuration	1 x 2 or 2 x 2		
Coupling Ratio	1:99 to 50:50, (50:50 standard)		
Insertion Loss ¹ , dB	Refer to the coupling ratio vs. Insertion loss chart		
Directivity, dB	> 50		
Return Loss, dB	> 50		
Operating Temperature ² , °C	-40 to +85		
Storage Temperature ² , °C	-50 to +85		
WARNING	This product should never be installed in an optical network handling above Class I emissions		

- 1 Without connectors
- 2 Conditioned by the cable type

Block diagram:

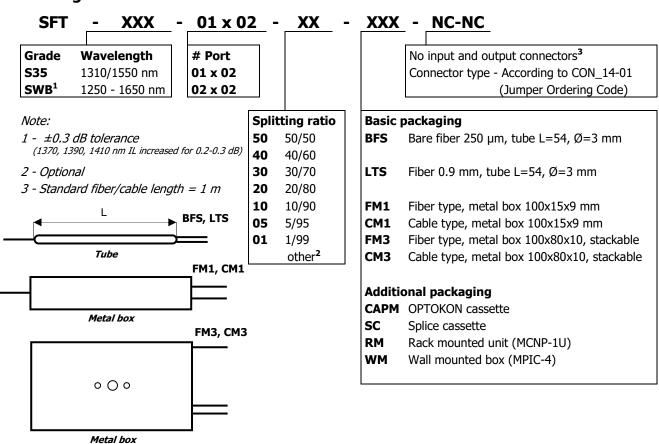


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Coupling Ratio vs. Insertion Loss		Coupling Ratio PDL Conversation Chart	
Coupling Ratio (%)	Insertion Loss (dB)	Coupling Ratio (%)	PDL (dB)
50 / 50	3.6	> 40 %	0.15
40 / 60	4.8 / 2.7	30 to 39 %	0.20
33 / 67	5.7 / 2.2	10 to 29 %	0.30
30 / 70	6.2 / 1.9	1 to 9 %	0.35
20 / 80	8.3 / 1.3		
10 / 90	11.7 / 0.7		
5 / 95	15.2 / 0.4		
1 / 99	23.3 / 0.2		

Ordering Code:



Packaging variants:



SFT-S35-01x02-50-CM3-NC-NC



SFT-S35-01x02-50-LTS-NC-NC



2x SFT-S35-01x02-50-RM-NE2-NE2



SFT-S35-01x02-50-CM1-NC-NC



SFT-S35-01X02-WM-NE2-NE2