

SFT-P series 1xN Planar Optical Splitter

Description:

The SFT-P 1xN Planar Lightwave Circuits (PLC) Optical Splitters are high performance, reliable and compact devices for splitting optical power, specifically designed to meet the tough requirements of FTTH, PON and CATV networks. Based on unique waveguide technology of Ion-Exchange in glass, such splitters exhibit very low insertion loss and PDL, great channel uniformity and a wide wavelength operative range.

The SFT-P 1xN PLC Optical Splitters are available in 1x4, 1x8, 1x16, 1x32, 1x64 and custom configurations, and comply with Telcordia GR-1209, GR-1221, IEC 67153-031-3/-6 and IEC 60304 requirements. Various packaging types, input and output fibers are available according to the customer demand.



Features:

- Very low insertion loss
- Ultra wide bandwidth (1250-1650 nm)
- Polarization independent
- Excellent channel uniformity
- Compact size
- Wide range of packaging

Specifications:

Configuration	1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64
Maximum Insertion Loss ¹ (dB)	3.8	7.0	10.3	13.5	16.7	20.3
Uniformity (dB)	≤ 0.6	≤ 0.6	≤ 0.8	≤ 1.1	≤ 1.5	≤ 2.0
Operating Wavelength (nm)	1260-1650					
Maximum PDL (dB)	≤ 0.2			≤ 0.3		≤ 0.4
Return Loss (dB)	≥ 55					
Directivity (dB)	≥ 55					
Operating Temperature (°C)	-40 to +85					
Storage Temperature (°C)	-40 to +85					
Relative humidity	up to 95%					
Fiber Type	G.657A					
Dimensions (mm) BFS, BFF	40x4x4				50x7x4	60x12x4
PON	40x4x4		60x7x4	60x12x4	80x20x6	100x40x6
Fiber Type:	BFS type	IN: Bare Fiber 250 μm / OUT: Bare Ribbon				
	PON type	IN: Tight Buffer 900 μm / OUT: Tight Buffer 900 μm				

Fiber length ² (m)	1.5±0.2 m
Standards	IEC 67153-031-3/-6, IEC 60304 Telcordia GR-1209-CORE & Telcordia GR-1221-CORE, UL94-V0, RoHS compliant

Note: 1) without connectors, room temperature

2) other length on demand

Application:

- Passive Optical Networks (PON)
- Network expansion
- CATV networks
- OADM and ROADM

Ordering code:

SFT-P - 01 x XX - XXX - XX-XX

Planar splitter	Package option I	NC-NC No input and output connectors XX-XX Connector type: Can be defined according to datasheet CON_13-01 (Ordering code for Pigtailed and Jumpers)
Splitting ratio (# of ports)	<p>BFS IN 0.25 mm fiber / OUT ribbon fiber</p> <p>PON IN / OUT 0.9 mm fiber</p>	
<p>01 x 02</p> <p>01 x 04</p> <p>01 x 08</p> <p>01 x 16</p> <p>01 x 32</p> <p>01 x 64</p>	<p>Package option II³⁺⁴</p> <p>FM3/CM3 metal box 100x80x10 mm, fiber/cable type, up to 1:4 ratio</p> <p>FM4/CM4 metal box 140x110x10 mm, fiber/cable type, up to 1:8 ratio</p> <p>FM5/CM5 metal box 140x110x20 mm, fiber/cable type, up to 1:32 ratio</p> <p>CP4/FP4 ABS box 100x80x10 mm, fiber/cable Ø 2 mm, up to 1:8 splitting ratio</p> <p>CP41/FP41 ABS box 120x80x18 mm, fiber/cable Ø 2 mm, up to 1:32 splitting ratio</p> <p>CP5/FP5 ABS box 140x115x18 mm, fiber/cable Ø 2 mm, up to 1:64 splitting ratio</p> <p>CAPM Splitter in CAPM cassette (see datasheet CMS_22-01_EN-CAPM.pdf)</p> <p>XXX ZMPJ, TMVJ, MCNP, ... rack mount ODF</p>	

Note: 3) Installation into 1-2 RU Optical Distribution Frame (ODF) on request:

XXX: Part number of relevant ODF

4) Fiber type: 0.9 mm, cable type: 2.0mm

Packaging variants:



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SFT-P-01x32-BFF-NC-NC



SFT-P-01x04-PON-NLC-NLC



SFT-P-01x16-CM5-NSC-NSC



SFT-P-01x32-MCPJ-NSC-NSC

Ribbon fiber colors:	1	2	3	4	5	6	7	8
(IEC 60304)	Red	Green	Blue	Yellow	White	Grey	Brown	Violet

Typical configuration:

SFT-P-01x16-BFS-NC-NC no connectors	1x16 splitter in basic packaging 40x4x4 mm, IN-0.25 mm, OUT-ribbon fiber,
SFT-P-01x08-PON-NLC-NLC	1x8 splitter PON type, IN/OUT fiber 0.9 mm, LC/APC connectors
SFT-P-01x08-CP4-NLC-NLC	1x8 splitter, ABS box, IN/OUT cable 2 mm, LC/APC connectors
SFT-P-01x32-ZMPJ-NSC-NSC connectors - adapters	1x32 splitter in 1 RU unit (ZMPJ optical distribution frame), QLC/APC